

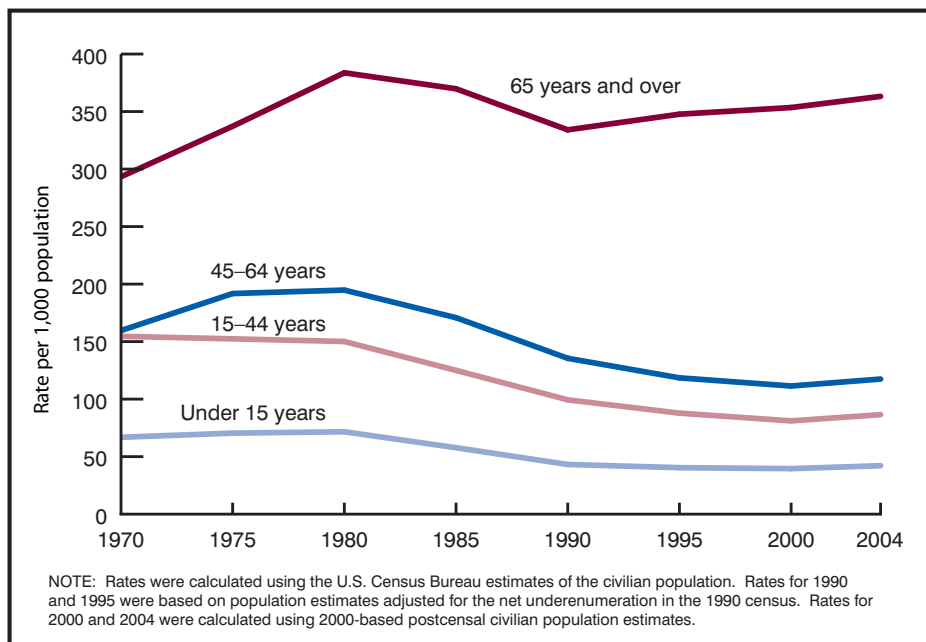
2004 National Hospital Discharge Survey

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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 Nation's longest continuously running survey of hospital utilization.

The figure on this page shows hospitalization rates for four age groups from 1970 through 2004. The rate of hospitalization for the elderly (those 65 years of age and over) increased by 24 percent over the entire period despite a decrease in the 1980s. In 1970, the rate of hospitalization for those 65 years and over was 293.3 per 1,000 population. By 2004, this rate increased to 362.9 per 1,000 population. In 2004, those 65 years and over comprised 38 percent of all inpatients compared with 20 percent in 1970. The hospitalization rates for the other three age groups significantly declined over this period.

With aging comes an increase in functional limitations and in the prevalence of chronic conditions that results in a greater need for health care services, including hospital care (1). Additionally, technological advances in cardiac surgery have resulted in increased hospitalizations of elderly patients for cardiovascular procedures (1). The decline in hospitalization rates for the other age groups is due in part to the many



Trends in the rate of hospitalization by age: United States, 1970–2004

advances in medical care, including advances in drug therapies and pain relief, the development of minimally invasive procedures, the growing availability of ambulatory surgery, and efforts to contain health care costs that have contributed to the shift of care from inpatient to outpatient settings (2,3).

This report presents information about inpatient hospital utilization during 2004 as well as selected trend data. 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/>.

Individual-year public-use data files are available for download from the website, and a multi-year public-use data file for trend analysis is available on CD-ROM. These and other products can also be obtained from the NCHS Information Dissemination Staff 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 2004 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 medical abstract data collected through the 2004 National Hospital Discharge Survey (NHDS). The survey has been conducted annually by the Centers for Disease Control and Prevention's National Center for Health Statistics (NCHS) since 1965. Diagnoses and procedures presented are coded using the *International Classification of Diseases, 9th Revision, Clinical Modification*, or ICD-9-CM.

Results—Trends in the utilization of non-Federal short-stay hospitals show that the rate of hospitalization of the elderly (those 65 years and over) increased 24 percent from 1970 through 2004 despite a decrease in the 1980s. The rates for the other age groups declined overall. In 2004, those 65 years and over comprised 12 percent of the U.S. population, 38 percent of all hospital discharges, and used 44 percent of all inpatient days of care.

In 2004, there were an estimated 34.9 million hospital discharges, excluding newborn infants. The average length of stay was 4.8 days for all inpatients and 5.6 days for the elderly. Almost one-half of hospital stays for heart disease had a first-listed discharge diagnosis of either congestive heart failure (25 percent) or coronary atherosclerosis (24 percent).

There were 45 million procedures performed on inpatients during 2004. From 1995 through 2004, for those 65 years and over, the rate of hip replacements increased 38 percent, and the rate of knee replacements increased 70 percent. 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 2004 National Hospital Discharge Survey (NHDS). The survey has been conducted continuously by NCHS since 1965. 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 NHDS are published annually by NCHS. This report provides an overview of the 2004 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 NHDS are published in Series 13 of *Vital and Health Statistics*, which includes two reports on trends in hospital use (4,5). Trend data from NHDS also have been used in an NCHS special report on health care utilization (1). NHDS data have been used in articles examining important topics of interest in public health and health services research (6–22) 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 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 (23–28). NSAS will be conducted again in 2006.

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 (29). The National Hospital Ambulatory Medical Care Survey collects data on visits to hospital outpatient and emergency departments (30,31).

Highlights

Patient and hospital characteristics

- The hospitalization rate of the elderly (those 65 years and over) increased 24 percent from 1970 to 2004 despite a decrease during the 1980s. For the other age groups, the rates declined overall, especially during the 1980s. Between 1970 and 2004, the rate of hospitalization for those under aged 15 years decreased by 37 percent; for those aged 15–44 years, it decreased by 44 percent; and for those aged 45–64 years, it decreased by 26 percent.
- In 2004, there were an estimated 34.9 million inpatients discharged, excluding newborn infants, from non-Federal short-stay hospitals in the United States (Table 1).
- The discharge rate was 1,192.3 per 10,000 population—964.9 for males and 1,411.3 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 978.2 in the West to 1,355.2 in the Northeast region. The average length of stay ranged from 4.4 days in the Midwest to 5.4 days in the Northeast region (Table 1).
- The average length of stay for children under age 15 years was 4.5 days; for those 15–44 years it was 3.7 days; for those aged 45–64 years, it was 5.0 days; and for those aged 65 years and over, it was 5.6 days (Table 4).
- In 2004, those aged 65 years and over comprised 12 percent of the U.S. population, made up 38 percent of all hospital discharges, and used 44 percent of the total days of care (Figure 1).

Diagnoses

- Six diagnostic categories each accounted for 1 million or more discharges. These were heart disease (4.4 million), delivery (4.1 million), psychoses (1.6 million), pneumonia (1.3 million), malignant neoplasms (1.2 million), and fractures (1.0 million) (Table 2).
- Thirteen percent of all stays were for heart disease. Congestive heart failure, coronary atherosclerosis, acute myocardial infarction, and cardiac dysrhythmias accounted for 83% of the heart disease hospitalizations (Figure 2).
- Of the 1.3 million discharges for pneumonia, 800,000 or 60 percent were 65 years of age and over (Table 2). For the elderly, there were 220.4 discharges per 10,000 population with a first-listed diagnosis of pneumonia (Table 3). The average length of stay was 6.1 days for elderly inpatients with a first-listed diagnosis of pneumonia (Table 4).
- One-fifth (4.1 million) of female discharges were for childbirth (Table 5).
- Overall, the average length of stay was 2.6 days for delivery, 4.6 days for heart disease, 5.5 days for pneumonia, 5.6 days for fractures, 6.6 days for malignant neoplasms, and 7.9 days for psychoses (Table 4).

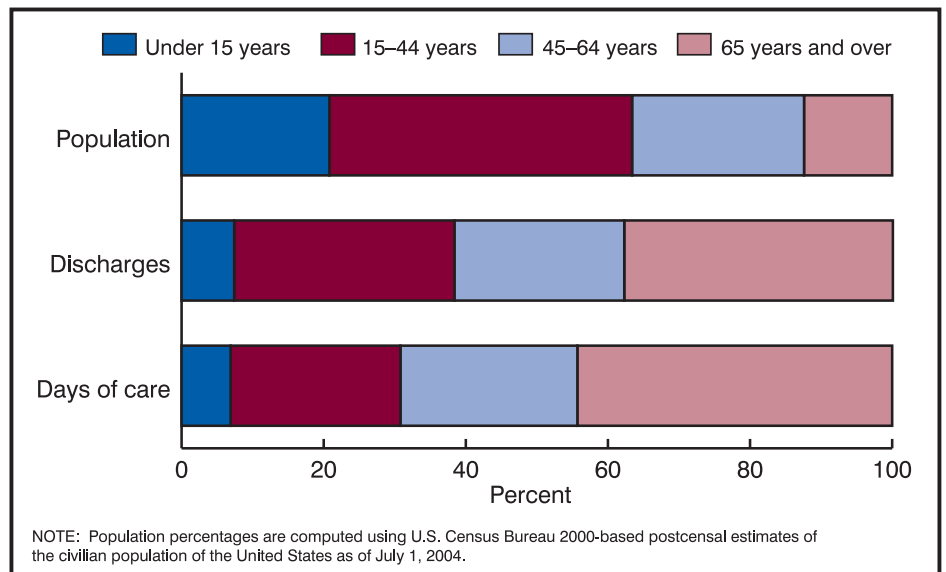


Figure 1. Percent distribution of the civilian population, hospital discharges, and hospital days of care by age: United States, 2004

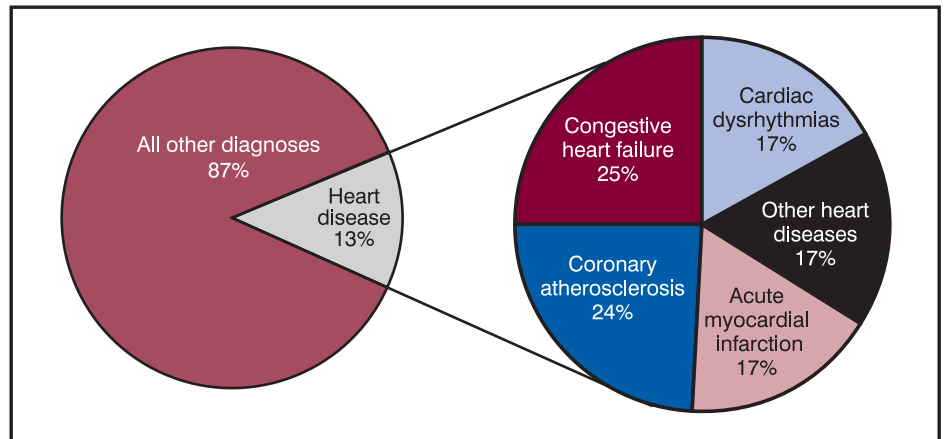


Figure 2. Percent distribution of patients hospitalized for heart disease: United States, 2004

Procedures

- During 2004, 45 million procedures were performed on hospital inpatients (Table 8). Nationally, the rate of procedures was 1,539.7 per 10,000 population (Table 9). For males, this rate was 1,231.6 and for females, it was 1,836.5 per 10,000 population (Table 11).
- The rate of hip and knee replacements for those aged 65 years and over increased from 1995 through 2004 (Figure 3). The rate of knee replacements for the elderly increased from 47.2 per 10,000 population in 1995 to 80.3 in 2004, and the rate of hip replacements increased from 27.1 per 10,000 population in 1995 to 37.3 in 2004.

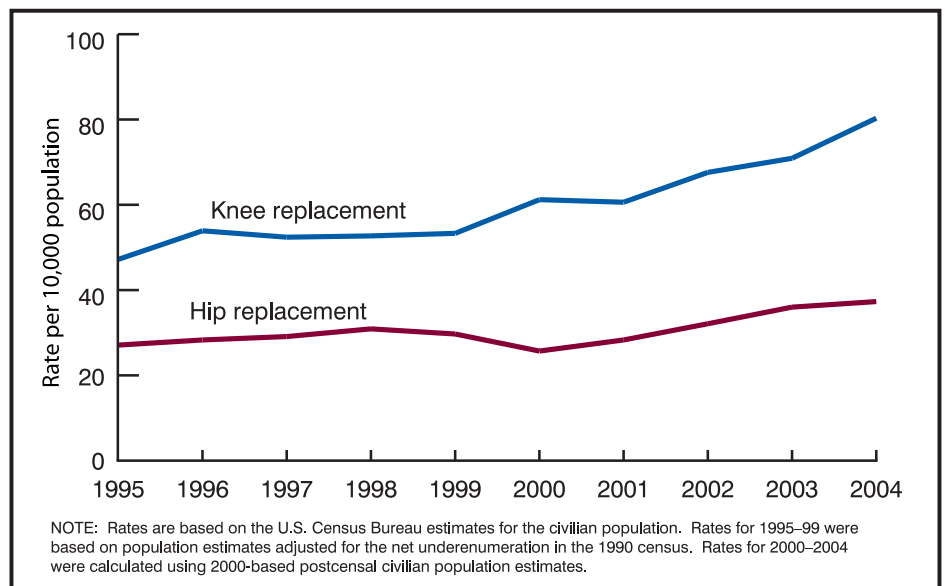


Figure 3. Rate of knee and hip replacement for inpatients aged 65 years and over: United States, 1995-2004

- Over 1 in 4 of all procedures performed on females were obstetrical and over 1 in 10 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 (4 million) than females (3 million) (Table 10). The rate of cardiovascular procedures performed on males was 277.7 per 10,000 population compared with 202.0 per 10,000 population for females (Table 11).
- Operations on the digestive system were more prevalent among females (3.4 million) than among males (2.4 million) (Table 10). The rate of digestive procedures for females was 226.7 per 10,000 population compared with 170.5 for males (Table 11).
- Males had over 1.2 million arteriographies and angiocardiographies, 771,000 cardiac catheterizations, and 759,000 transfusions of blood or blood components, and 588,000 respiratory therapy procedures while hospitalized (Table 10).
- Females had 1.2 million procedures for the repair of current obstetric laceration, 1.2 million cesarean sections, 1.1 million transfusions of blood or blood components, and 941,000 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 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

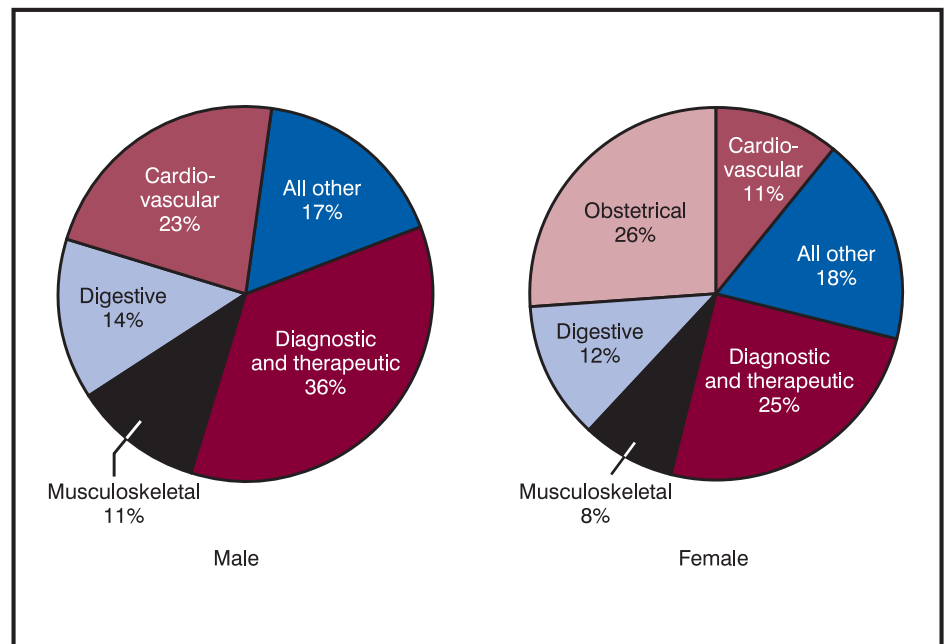


Figure 4. Percent distribution of all-listed procedures for hospitalized patients by sex: United States, 2004

survey. Federal, military, and Department of Veterans Affairs hospitals, as well as hospital units of institutions (such as prison hospitals) and hospitals with fewer than six beds staffed for patient use, are excluded.

Prior to 1988, NHDS was based on a two-stage design. The survey was redesigned in 1988 (32). 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. 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 (33). 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" (34). These two products were formerly known as the SMG Hospital Market Database. The hospital sampling frame and sample are updated every 3 years (32).

For 2004, the sample consisted of 501 hospitals, of which 25 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 476 in-scope (eligible) hospitals, 439 responded to the survey. Data were collected for approximately 371,000 discharges from the 439 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 2004, approximately 44 percent of respondent hospitals provided data through the automated system. A detailed report on the design and operation of NHDS has been published (32).

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)* (35). 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 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 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 2004 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 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: 1) inflation by reciprocals of the probabilities of sample selection; 2) adjustment for nonresponse; and 3) population weighting ratio adjustments. These three components of the final

weight are described in more detail in another report (32).

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 (36). 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 (32).

The diagnoses and procedures appear in separate tables of this report, presented by chapter of the ICD-9-CM. 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 an asterisk (*). 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 2000-based postcensal estimates of the civilian population of the United States as of July 1, 2004. The data are from unpublished tabulations provided by the U.S. Census Bureau. Civilian population estimates for 2004 are available from: <http://www.cdc.gov/nchs/about/major/hdasd/nhds.htm>.

This is the fourth year that 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, 2004

[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	34,864	1,220	13,844	534	21,020	721
Age						
Under 15 years	2,571	343	1,432	193	1,139	151
15–44 years	10,800	415	2,827	137	7,973	316
45–64 years	8,323	303	4,073	156	4,249	155
65 years and over	13,171	544	5,512	244	7,658	311
Region						
Northeast	7,388	620	3,097	274	4,290	357
Midwest	7,680	785	3,058	335	4,622	462
South	13,239	556	5,146	235	8,093	346
West	6,557	415	2,543	201	4,014	238
	Rate per 10,000 population ²					
Total	1,192.3	41.7	964.9	37.2	1,411.3	48.4
Age						
Under 15 years	422.7	56.3	459.9	62.1	383.7	50.8
15–44 years	866.5	33.3	450.2	21.8	1,289.0	51.0
45–64 years	1,177.9	42.8	1,183.6	45.2	1,172.5	42.8
65 years and over	3,628.9	150.0	3,637.7	161.2	3,622.5	146.9
Region						
Northeast	1,355.2	113.7	1,172.2	103.7	1,527.3	127.0
Midwest	1,170.0	119.6	948.7	104.0	1,383.6	138.4
South	1,258.2	52.8	1,000.3	45.7	1,504.8	64.3
West	978.2	61.9	761.8	60.4	1,192.8	70.8
	Average length of stay in days					
Total	4.8	0.1	5.2	0.1	4.5	0.1
Age						
Under 15 years	4.5	0.2	4.5	0.2	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	5.2	0.1	4.9	0.1
65 years and over	5.6	0.1	5.6	0.1	5.6	0.1
Region						
Northeast	5.4	0.1	5.7	0.2	5.2	0.1
Midwest	4.4	0.1	4.7	0.1	4.2	0.1
South	4.9	0.1	5.4	0.1	4.6	0.1
West	4.5	0.1	5.0	0.1	4.2	0.1

¹SE is standard error.²Rates were calculated using U.S. Census Bureau 2000-based postcensal estimates of the civilian population as of July 1, 2004.

Table 2. Number of discharges from short-stay hospitals by first-listed diagnosis and age: United States, 2004[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	34,864	1,220	2,571	343	10,800	415	8,323	303	13,171	544
Infectious and parasitic diseases 001-139	949	46	155	21	172	10	212	12	409	25
Septicemia038	410	26	7	2	28	3	90	7	285	20
Neoplasms 140-239	1,640	71	38	8	286	15	606	30	709	34
Malignant neoplasms 140-208,230-234	1,205	56	28	7	125	9	428	24	625	31
Malignant neoplasm of large intestine and rectum 153-154,197.5	161	10	*	*	10	2	48	4	103	8
Malignant neoplasm of trachea, bronchus, and lung 162,176.4,197.0,197.3	164	11	*	*	12	3	54	6	97	7
Benign neoplasms 210-229	380	18	8	2	150	9	164	9	58	5
Benign neoplasm of uterus 218-219	216	12	*	*	109	8	104	7	*	*
Endocrine, nutritional and metabolic diseases, and immunity disorders 240-279	1,753	73	189	28	386	20	484	25	693	34
Diabetes mellitus250	599	28	31	6	148	9	208	13	211	13
Volume depletion 276.5	518	27	127	18	64	6	82	8	245	14
Diseases of the blood and blood-forming organs 280-289	449	23	58	10	109	8	98	8	184	11
Anemias 280-285	316	18	27	5	89	7	63	6	136	9
Mental disorders 290-319	2,311	281	127	29	1,253	174	662	76	268	25
Psychoses 290-299	1,601	206	*	*	845	122	463	57	220	21
Schizophrenic disorders295	331	50	*	*	177	28	123	20	28	4
Major depressive disorder 296.2-296.3	463	71	*	*	268	46	123	17	48	6
Diseases of the nervous system and sense organs 320-389	553	30	80	16	133	9	132	9	208	13
Diseases of the circulatory system 390-459	6,363	249	31	6	448	19	1,881	78	4,003	172
Essential hypertension401	341	20	*	*	49	5	140	9	152	11
Heart disease 391-392.0,393-398,402,404,410-416,420-429	4,375	179	19	3	265	13	1,304	59	2,787	123
Acute myocardial infarction410	732	43	*	*	42	5	230	15	460	28
Coronary atherosclerosis414.0	1,065	59	*	*	48	5	440	30	576	31
Other ischemic heart disease 411-413,414.1-414.9	184	14	*	*	15	2	76	7	92	10
Cardiac dysrhythmias427	762	33	5	1	56	5	175	10	526	26
Congestive heart failure 428.0,428.2-428.4	1,092	48	*3	*1	38	4	233	15	816	40
Cerebrovascular disease 430-438	906	41	*	*	48	6	218	9	637	35
Diseases of the respiratory system 460-519	3,550	153	687	85	346	21	736	32	1,780	95
Acute bronchitis and bronchiolitis466	265	29	200	28	16	4	15	3	34	4
Pneumonia 480-486	1,329	71	182	20	104	9	244	14	800	59
Chronic bronchitis491	486	28	*	*	11	2	150	11	323	21
Asthma493	497	37	190	28	91	8	112	8	104	11
Diseases of the digestive system 520-579	3,580	135	248	35	859	37	1,070	43	1,404	63
Appendicitis 540-543	313	19	82	12	157	10	54	4	21	3
Noninfectious enteritis and colitis 555-558	315	20	56	8	94	8	70	6	96	8
Intestinal obstruction560	305	15	14	3	32	3	85	6	174	11
Diverticula of intestine562	312	17	*	*	42	4	93	7	177	12
Cholelithiasis574	354	17	*2	*1	122	8	103	7	127	7
Acute pancreatitis 577.0	246	13	*4	*1	76	6	94	7	72	5
Diseases of the genitourinary system 580-629	1,941	78	84	15	580	29	496	21	782	40
Calculus of kidney and ureter592	171	10	*	*	73	7	68	6	29	3
Urinary tract infection 599.0	429	27	26	6	35	4	66	6	302	21
Complications of pregnancy, childbirth, and the puerperium ² 630-677	523	32	*	*	520	32	*	*	...	...
Diseases of the skin and subcutaneous tissue 680-709	764	60	*	*	214	19	210	13	234	17
Cellulitis and abscess 681-682	562	31	54	10	165	12	170	11	174	14
Diseases of the musculoskeletal system and connective tissue 710-739	1,920	104	38	7	311	17	681	41	889	56
Osteoarthritis and allied disorders715	696	54	*	*	23	4	246	21	427	35
Intervertebral disc disorders722	369	23	*	*	130	9	153	12	85	9
Congenital anomalies 740-759	206	30	143	28	32	4	22	6	9	2
Certain conditions originating in the perinatal period 760-779	203	35	203	35	*	*	*	*	*	*
Symptoms, signs, and ill-defined conditions 780-799	248	24	59	9	79	9	64	9	47	9
Injury and poisoning 800-999	2,845	125	240	37	828	43	709	33	1,069	54
Fractures, all sites ³ 800-829	1,039	54	73	10	241	17	191	12	534	32
Fracture of neck of femur ³820	329	21	*	*	*7	*2	31	4	289	19
Poisonings 960-989	256	14	19	3	150	10	62	5	25	3
Certain complications of surgical and medical care 996-999	871	43	45	9	181	10	318	18	327	20
Supplementary classifications V01-V83	5,068	209	82	17	4,244	197	259	22	483	52
Females with deliveries V27	4,136	196	*5	*2	4,120	196	10	2	...	...

* Figure does not meet standards of reliability or precision.

... Category not applicable.

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

Table 3. Rate of discharges from short-stay hospitals by age and first-listed diagnosis: United States, 2004[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
	Rate per 10,000 population ²									
All conditions	1,192.3	41.7	422.7	56.3	866.5	33.3	1,177.9	42.8	3,628.9	150.0
Infectious and parasitic diseases 001-139	32.4	1.6	25.6	3.5	13.8	0.8	30.1	1.8	112.6	6.8
Septicemia 038	14.0	0.9	1.2	0.3	2.2	0.2	12.7	0.9	78.5	5.4
Neoplasms 140-239	56.1	2.4	6.2	1.4	23.0	1.2	85.8	4.2	195.5	9.3
Malignant neoplasms 140-208,230-234	41.2	1.9	4.6	1.1	10.0	0.7	60.5	3.4	172.2	8.5
Malignant neoplasm of large intestine and rectum 153-154,197.5	5.5	0.3	*	*	0.8	0.1	6.9	0.6	28.3	2.2
Malignant neoplasm of trachea, bronchus, and lung 162,176.4,197.0,197.3	5.6	0.4	*	*	1.0	0.3	7.6	0.8	26.8	1.8
Benign neoplasms 210-229	13.0	0.6	1.3	0.3	12.1	0.8	23.2	1.2	15.9	1.3
Benign neoplasm of uterus 218-219	7.4	0.4	*	*	8.7	0.6	14.7	1.0	*	*
Endocrine, nutritional and metabolic diseases, and immunity disorders 240-279	59.9	2.5	31.1	4.6	31.0	1.6	68.5	3.5	190.9	9.3
Diabetes mellitus 250	20.5	1.0	5.0	1.0	11.9	0.7	29.5	1.8	58.2	3.5
Volume depletion 276.5	17.7	0.9	20.8	3.0	5.1	0.5	11.6	1.1	67.6	3.9
Diseases of the blood and blood-forming organs 280-289	15.3	0.8	9.6	1.7	8.7	0.7	13.9	1.1	50.6	3.1
Anemias 280-285	10.8	0.6	4.5	0.9	7.2	0.6	8.9	0.9	37.5	2.6
Mental disorders 290-319	79.0	9.6	21.0	4.8	100.6	14.0	93.7	10.8	73.9	6.8
Psychoses 290-299	54.8	7.0	*	*	67.8	9.8	65.5	8.0	60.7	5.9
Schizophrenic disorders 295	11.3	1.7	*	*	14.2	2.2	17.5	2.8	7.6	1.2
Major depressive disorder 296.2-296.3	15.8	2.4	*	*	21.5	3.7	17.5	2.4	13.3	1.7
Diseases of the nervous system and sense organs 320-389	18.9	1.0	13.2	2.7	10.7	0.7	18.7	1.3	57.3	3.6
Diseases of the circulatory system 390-459	217.6	8.5	5.1	0.9	35.9	1.5	266.3	11.0	1,103.0	47.4
Essential hypertension 401	11.7	0.7	*	*	3.9	0.4	19.8	1.3	41.9	3.1
Heart disease 391-392.0,393-398,402,404,410-416,420-429	149.6	6.1	3.1	0.6	21.3	1.0	184.6	8.4	767.9	34.0
Acute myocardial infarction 410	25.0	1.5	*	*	3.4	0.4	32.5	2.2	126.6	7.8
Coronary atherosclerosis 414.0	36.4	2.0	*	*	3.9	0.4	62.3	4.3	158.6	8.5
Other ischemic heart disease 411-413,414.1-414.9	6.3	0.5	*	*	1.2	0.2	10.8	0.9	25.2	2.8
Cardiac dysrhythmias 427	26.1	1.1	0.8	0.2	4.5	0.4	24.8	1.4	145.0	7.2
Congestive heart failure 428.0,428.2-428.4	37.3	1.6	*0.6	*0.2	3.1	0.3	33.0	2.1	225.0	11.0
Cerebrovascular disease 430-438	31.0	1.4	*	*	3.8	0.4	30.8	1.3	175.6	9.6
Diseases of the respiratory system 460-519	121.4	5.2	113.0	14.1	27.7	1.7	104.2	4.6	490.6	26.2
Acute bronchitis and bronchiolitis 466	9.1	1.0	32.8	4.5	1.3	0.3	2.2	0.4	9.4	1.1
Pneumonia 480-486	45.5	2.4	29.8	3.4	8.3	0.7	34.5	2.1	220.4	16.3
Chronic bronchitis 491	16.6	0.9	*	*	0.9	0.2	21.2	1.6	88.9	5.7
Asthma 493	17.0	1.3	31.2	4.6	7.3	0.6	15.9	1.1	28.7	3.1
Diseases of the digestive system 520-579	122.4	4.6	40.8	5.8	68.9	3.0	151.4	6.2	386.9	17.3
Appendicitis 540-543	10.7	0.6	13.5	1.9	12.6	0.8	7.7	0.6	5.7	0.9
Noninfectious enteritis and colitis 555-558	10.8	0.7	9.2	1.4	7.5	0.7	9.9	0.8	26.4	2.2
Intestinal obstruction 560	10.4	0.5	2.3	0.5	2.6	0.2	12.0	0.8	48.0	3.0
Diverticula of intestine 562	10.7	0.6	*	*	3.3	0.3	13.1	1.0	48.8	3.4
Cholelithiasis 574	12.1	0.6	*0.4	*0.1	9.8	0.7	14.6	1.0	35.0	2.1
Acute pancreatitis 577.0	8.4	0.5	*0.7	*0.2	6.1	0.4	13.3	0.9	19.7	1.5
Diseases of the genitourinary system 580-629	66.4	2.7	13.8	2.4	46.5	2.3	70.2	3.0	215.4	11.2
Calculus of kidney and ureter 592	5.9	0.3	*	*	5.8	0.5	9.6	0.8	7.9	0.8
Urinary tract infection 599.0	14.7	0.9	4.3	1.0	2.8	0.4	9.3	0.9	83.2	5.8
Complications of pregnancy, childbirth, and the puerperium ³ 630-677	17.9	1.1	*	*	41.7	2.5	*	*	...	...
Diseases of the skin and subcutaneous tissue 680-709	26.1	2.1	*	*	17.2	1.5	29.8	1.8	64.4	4.7
Cellulitis and abscess 681-682	19.2	1.1	8.8	1.6	13.2	0.9	24.1	1.6	47.9	4.0
Diseases of the musculoskeletal system and connective tissue 710-739	65.7	3.5	6.3	1.2	25.0	1.4	96.4	5.9	245.1	15.4
Osteoarthritis and allied disorders 715	23.8	1.9	*	*	1.8	0.3	34.8	2.9	117.7	9.6
Intervertebral disc disorders 722	12.6	0.8	*	*	10.4	0.7	21.7	1.7	23.4	2.4
Congenital anomalies 740-759	7.0	1.0	23.4	4.6	2.6	0.3	3.1	0.8	2.5	0.6
Certain conditions originating in the perinatal period 760-779	7.0	1.2	33.3	5.7	*	*	*	*	*	*
Symptoms, signs, and ill-defined conditions 780-799	8.5	0.8	9.7	1.5	6.3	0.7	9.0	1.2	12.8	2.4
Injury and poisoning 800-999	97.3	4.3	39.5	6.0	66.4	3.4	100.3	4.7	294.4	14.8
Fractures, all sites ⁴ 800-829	35.5	1.8	12.0	1.7	19.3	1.3	27.0	1.7	147.0	8.8
Fracture of neck of femur ⁴ 820	11.3	0.7	*	*	*0.6	*0.1	4.4	0.6	79.6	5.3
Poisonings 960-989	8.8	0.5	3.2	0.5	12.0	0.8	8.8	0.8	6.9	0.9
Certain complications of surgical and medical care 996-999	29.8	1.5	7.5	1.4	14.5	0.8	45.0	2.5	90.1	5.4
Supplementary classifications V01-V83	173.3	7.2	13.4	2.8	340.5	15.8	36.6	3.1	133.1	14.2
Females with deliveries V27	141.4	6.7	*0.9	*0.3	330.5	15.7	1.5	0.3	...	...

* Figure does not meet standards 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, 2004.³First-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, 2004[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	3.7	0.1	5.0	0.1	5.6	0.1
Infectious and parasitic diseases 001-139	6.6	0.2	2.9	0.1	6.0	0.4	7.8	0.5	7.6	0.2
Septicemia 038	8.4	0.3	5.1	0.7	9.5	1.4	9.1	0.6	8.1	0.3
Neoplasms 140-239	5.7	0.1	7.3	0.8	4.1	0.2	5.4	0.2	6.6	0.1
Malignant neoplasms 140-208,230-234	6.6	0.1	8.7	0.9	5.7	0.3	6.3	0.2	6.9	0.1
Malignant neoplasm of large intestine and rectum 153-154,197.5	8.6	0.3	*	*	6.2	0.7	7.3	0.3	9.4	0.4
Malignant neoplasm of trachea, bronchus, and lung 162,176.4,197.0,197.3	6.9	0.2	*	*	7.8	1.2	6.9	0.4	6.9	0.3
Benign neoplasms 210-229	3.2	0.1	3.3	0.5	2.7	0.1	3.1	0.2	5.0	0.3
Benign neoplasm of uterus 218-219	2.5	0.1	*	*	2.5	0.1	2.4	0.1	*3.0	*0.6
Endocrine, nutritional and metabolic diseases, and immunity disorders 240-279	4.0	0.1	3.0	0.2	3.4	0.1	4.0	0.1	4.5	0.1
Diabetes mellitus 250	4.7	0.1	2.6	0.2	4.0	0.2	4.9	0.2	5.3	0.3
Volume depletion 276.5	3.3	0.1	2.1	0.1	2.9	0.3	3.2	0.2	4.0	0.1
Diseases of the blood and blood-forming organs 280-289	4.7	0.3	4.0	0.3	6.0	1.0	4.8	0.3	4.1	0.1
Anemias 280-285	4.9	0.4	4.3	0.4	6.5	1.2	4.9	0.4	3.9	0.2
Mental disorders 290-319	7.1	0.2	10.3	2.0	6.4	0.2	7.2	0.3	8.7	0.5
Psychoses 290-299	7.9	0.2	8.7	1.5	7.1	0.2	8.4	0.3	9.5	0.6
Schizophrenic disorders 295	10.8	0.4	*	*	10.2	0.5	11.3	0.7	12.2	1.2
Major depressive disorder 296.2-296.3	6.8	0.2	5.8	0.4	5.8	0.2	7.5	0.5	11.1	0.8
Diseases of the nervous system and sense organs 320-389	5.3	0.2	4.6	0.5	4.2	0.3	4.8	0.2	6.5	0.4
Diseases of the circulatory system 390-459	4.7	0.1	6.9	1.3	4.1	0.2	4.3	0.1	4.9	0.1
Essential hypertension 401	2.3	0.1	*	*	2.3	0.4	2.2	0.1	2.4	0.1
Heart disease 391-392.0,393-398,402,404,410-416,420-429	4.6	0.1	8.1	1.9	4.0	0.3	4.1	0.1	4.9	0.1
Acute myocardial infarction 410	5.8	0.2	*	*	3.4	0.3	5.4	0.3	6.2	0.2
Coronary atherosclerosis 414.0	3.5	0.1	*	*	2.8	0.2	3.2	0.1	3.8	0.1
Other ischemic heart disease 411-413,414.1-414.9	2.7	0.2	*	*	2.1	0.3	2.2	0.2	2.7	0.2
Cardiac dysrhythmias 427	3.7	0.1	4.9	0.9	*	*	3.1	0.1	3.9	0.1
Congestive heart failure 428.0,428.2-428.4	5.4	0.1	*11.0	*3.0	4.5	0.3	5.3	0.2	5.4	0.1
Cerebrovascular disease 430-438	5.2	0.1	*8.5	*2.0	5.5	0.6	5.5	0.3	5.1	0.2
Diseases of the respiratory system 460-519	5.2	0.1	2.9	0.1	4.5	0.2	5.4	0.1	6.1	0.1
Acute bronchitis and bronchiolitis 466	3.3	0.1	3.1	0.2	3.0	0.3	4.6	0.8	3.8	0.2
Pneumonia 480-486	5.5	0.1	3.2	0.1	4.7	0.4	5.6	0.2	6.1	0.1
Chronic bronchitis 491	5.0	0.2	*	*	5.5	1.6	4.6	0.2	5.1	0.2
Asthma 493	3.2	0.1	2.2	0.1	2.9	0.1	3.7	0.2	4.8	0.2
Diseases of the digestive system 520-579	4.7	0.1	3.6	0.2	3.8	0.1	4.8	0.2	5.4	0.1
Appendicitis 540-543	3.1	0.1	3.7	0.4	2.4	0.1	3.7	0.2	4.8	0.4
Noninfectious enteritis and colitis 555-558	4.7	0.3	2.5	0.2	3.9	0.2	6.0	0.9	5.9	0.5
Intestinal obstruction 560	6.2	0.3	5.8	1.4	5.2	0.4	6.5	0.6	6.2	0.3
Diverticula of intestine 562	5.0	0.1	*	*	4.7	0.3	4.5	0.2	5.4	0.2
Cholelithiasis 574	4.0	0.1	*3.2	*0.7	3.2	0.3	3.7	0.2	5.1	0.2
Acute pancreatitis 577.0	5.7	0.2	*6.0	*1.0	5.6	0.4	5.3	0.2	6.3	0.5
Diseases of the genitourinary system 580-629	3.8	0.1	3.1	0.1	2.8	0.1	3.5	0.1	4.9	0.1
Calculus of kidney and ureter 592	2.4	0.1	*	*	2.2	0.1	2.2	0.1	3.1	0.3
Urinary tract infection 599.0	4.9	0.1	3.1	0.2	4.2	0.5	4.4	0.3	5.2	0.2
Complications of pregnancy, childbirth, and the puerperium ³ 630-677	2.7	0.1	*	*	2.7	0.1	*	*	...	...
Diseases of the skin and subcutaneous tissue 680-709	5.1	0.3	2.6	0.2	4.3	0.2	5.5	0.2	6.5	0.3
Cellulitis and abscess 681-682	4.8	0.1	2.9	0.1	4.0	0.2	4.9	0.2	5.9	0.3
Diseases of the musculoskeletal system and connective tissue 710-739	3.9	0.1	4.3	0.4	3.5	0.2	3.5	0.1	4.2	0.1
Osteoarthritis and allied disorders 715	3.9	0.1	*	*	3.6	0.2	3.6	0.1	4.0	0.1
Intervertebral disc disorders 722	2.8	0.1	*	*	2.4	0.2	2.6	0.1	3.7	0.2
Congenital anomalies 740-759	6.8	0.7	7.2	0.8	3.5	0.3	*	*	5.5	0.6
Certain conditions originating in the perinatal period 760-779	10.7	0.7	10.7	0.7	*	*	*	*	*	*
Symptoms, signs, and ill-defined conditions 780-799	2.7	0.2	2.0	0.1	2.3	0.2	2.5	0.2	4.4	1.0
Injury and poisoning 800-999	5.5	0.1	3.6	0.2	4.6	0.2	5.9	0.3	6.2	0.2
Fractures, all sites ⁴ 800-829	5.6	0.2	2.4	0.2	5.1	0.3	6.1	0.4	6.1	0.2
Fracture of neck of femur ⁴ 820	6.4	0.2	*	*	*5.8	*0.8	6.4	0.6	6.5	0.2
Poisonings 960-989	3.1	0.4	1.8	0.2	2.7	0.4	3.3	0.3	*	*
Certain complications of surgical and medical care 996-999	6.2	0.2	5.8	0.4	5.0	0.2	6.5	0.4	6.6	0.3
Supplementary classifications V01-V83	3.7	0.1	4.9	0.5	2.7	0.0	7.4	0.4	10.2	0.3
Females with deliveries V27	2.6	0.0	*2.7	*0.1	2.6	0.0	3.3	0.3	...	...

* Figure does not meet standards of reliability or precision.

... Category not applicable.

0.0 Quantity more than zero, but less than 0.05.

¹ALOS is average length of stay in days.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, 2004[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	34,864	1,220	13,844	534	21,020	721
Infectious and parasitic diseases 001-139	949	46	441	24	507	27
Septicemia 038	410	26	188	14	222	14
Neoplasms. 140-239	1,640	71	655	36	985	40
Malignant neoplasms 140-208,230-234	1,205	56	576	33	629	28
Malignant neoplasm of large intestine and rectum 153-154,197.5	161	10	82	6	79	6
Malignant neoplasm of trachea, bronchus, and lung 162,176.4,197.0,197.3	164	11	89	8	75	5
Benign neoplasms. 210-229	380	18	51	5	329	16
Benign neoplasm of uterus 218-219	216	12	...	...	216	12
Endocrine, nutritional and metabolic diseases, and immunity disorders. 240-279	1,753	73	723	33	1,030	45
Diabetes mellitus 250	599	28	299	16	300	16
Volume depletion 276.5	518	27	216	13	302	17
Diseases of the blood and blood-forming organs 280-289	449	23	175	11	274	16
Anemias 280-285	316	18	115	8	201	13
Mental disorders 290-319	2,311	281	1,176	147	1,135	138
Psychoses 290-299	1,601	206	781	101	820	107
Schizophrenic disorders. 295	331	50	179	27	151	24
Major depressive disorder 296.2-296.3	463	71	190	29	273	43
Diseases of the nervous system and sense organs. 320-389	553	30	238	15	316	18
Diseases of the circulatory system 390-459	6,363	249	3,227	124	3,136	132
Essential hypertension 401	341	20	136	10	206	13
Heart disease 391-392.0,393-398,402,404,410-416,420-429	4,375	179	2,306	94	2,069	93
Acute myocardial infarction 410	732	43	423	27	309	20
Coronary atherosclerosis 414.0	1,065	59	662	38	403	24
Other ischemic heart disease 411-413,414.1-414.9	184	14	95	7	89	9
Cardiac dysrhythmias 427	762	33	364	17	398	21
Congestive heart failure 428.0,428.2-428.4	1,092	48	520	24	571	29
Cerebrovascular disease. 430-438	906	41	416	19	490	26
Diseases of the respiratory system 460-519	3,550	153	1,712	82	1,838	82
Acute bronchitis and bronchiolitis 466	265	29	142	17	123	13
Pneumonia 480-486	1,329	71	637	34	692	43
Chronic bronchitis 491	486	28	225	15	261	18
Asthma 493	497	37	207	22	290	19
Diseases of the digestive system 520-579	3,580	135	1,580	65	2,001	80
Appendicitis. 540-543	313	19	182	12	131	9
Noninfectious enteritis and colitis 555-558	315	20	123	9	192	14
Intestinal obstruction 560	305	15	128	10	177	9
Diverticula of intestine 562	312	17	132	8	180	13
Cholelithiasis 574	354	17	112	8	242	13
Acute pancreatitis 577.0	246	13	117	8	129	9
Diseases of the genitourinary system 580-629	1,941	78	583	31	1,358	54
Calculus of kidney and ureter 592	171	10	88	6	83	6
Urinary tract infection 599.0	429	27	125	11	304	19
Complications of pregnancy, childbirth, and the puerperium ² 630-677	523	32	...	...	523	32
Diseases of the skin and subcutaneous tissue. 680-709	764	60	395	33	368	29
Cellulitis and abscess 681-682	562	31	296	17	267	18
Diseases of the musculoskeletal system and connective tissue 710-739	1,920	104	805	47	1,115	62
Osteoarthritis and allied disorders 715	696	54	259	26	436	32
Intervertebral disc disorders 722	369	23	178	12	191	14
Congenital anomalies 740-759	206	30	112	18	94	14
Certain conditions originating in the perinatal period 760-779	203	35	112	20	91	16
Symptoms, signs, and ill-defined conditions 780-799	248	24	115	12	133	14
Injury and poisoning 800-999	2,845	125	1,392	70	1,452	63
Fractures, all sites ³ 800-829	1,039	54	459	28	580	32
Fracture of neck of femur ³ 820	329	21	93	7	236	16
Poisonings 960-989	256	14	107	8	149	10
Certain complications of surgical and medical care 996-999	871	43	407	24	464	23
Supplementary classifications V01-V83	5,068	209	403	32	4,665	200
Females with deliveries V27	4,136	196	...	...	4,136	196

... 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, 2004[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 ²					
All conditions	1,192.3	41.7	964.9	37.2	1,411.3	48.4
Infectious and parasitic diseases 001-139	32.4	1.6	30.7	1.6	34.1	1.8
Septicemia 038	14.0	0.9	13.1	1.0	14.9	1.0
Neoplasms. 140-239	56.1	2.4	45.6	2.5	66.1	2.7
Malignant neoplasms 140-208,230-234	41.2	1.9	40.1	2.3	42.3	1.8
Malignant neoplasm of large intestine and rectum 153-154,197.5	5.5	0.3	5.7	0.4	5.3	0.4
Malignant neoplasm of trachea, bronchus, and lung 162,176.4,197.0,197.3	5.6	0.4	6.2	0.5	5.0	0.4
Benign neoplasms. 210-229	13.0	0.6	3.5	0.4	22.1	1.1
Benign neoplasm of uterus 218-219	7.4	0.4	...	...	14.5	0.8
Endocrine, nutritional and metabolic diseases, and immunity disorders. 240-279	59.9	2.5	50.4	2.3	69.1	3.0
Diabetes mellitus 250	20.5	1.0	20.8	1.1	20.1	1.1
Volume depletion 276.5	17.7	0.9	15.0	0.9	20.3	1.1
Diseases of the blood and blood-forming organs 280-289	15.3	0.8	12.2	0.8	18.4	1.0
Anemias 280-285	10.8	0.6	8.0	0.6	13.5	0.9
Mental disorders 290-319	79.0	9.6	82.0	10.2	76.2	9.3
Psychoses 290-299	54.8	7.0	54.4	7.1	55.1	7.2
Schizophrenic disorders. 295	11.3	1.7	12.5	1.9	10.2	1.6
Major depressive disorder 296.2-296.3	15.8	2.4	13.2	2.0	18.3	2.9
Diseases of the nervous system and sense organs. 320-389	18.9	1.0	16.6	1.0	21.2	1.2
Diseases of the circulatory system 390-459	217.6	8.5	224.9	8.7	210.6	8.9
Essential hypertension 401	11.7	0.7	9.4	0.7	13.8	0.8
Heart disease 391-392.0,393-398,402,404,410-416,420-429	149.6	6.1	160.7	6.6	138.9	6.2
Acute myocardial infarction 410	25.0	1.5	29.5	1.8	20.8	1.3
Coronary atherosclerosis 414.0	36.4	2.0	46.1	2.6	27.1	1.6
Other ischemic heart disease 411-413,414.1-414.9	6.3	0.5	6.6	0.5	6.0	0.6
Cardiac dysrhythmias 427	26.1	1.1	25.4	1.2	26.7	1.4
Congestive heart failure 428.0,428.2-428.4	37.3	1.6	36.3	1.7	38.4	2.0
Cerebrovascular disease. 430-438	31.0	1.4	29.0	1.3	32.9	1.8
Diseases of the respiratory system 460-519	121.4	5.2	119.3	5.7	123.4	5.5
Acute bronchitis and bronchiolitis 466	9.1	1.0	9.9	1.2	8.3	0.9
Pneumonia 480-486	45.5	2.4	44.4	2.4	46.5	2.9
Chronic bronchitis 491	16.6	0.9	15.7	1.0	17.5	1.2
Asthma 493	17.0	1.3	14.5	1.5	19.4	1.3
Diseases of the digestive system 520-579	122.4	4.6	110.1	4.5	134.3	5.3
Appendicitis. 540-543	10.7	0.6	12.7	0.8	8.8	0.6
Noninfectious enteritis and colitis 555-558	10.8	0.7	8.6	0.6	12.9	1.0
Intestinal obstruction 560	10.4	0.5	8.9	0.7	11.9	0.6
Diverticula of intestine 562	10.7	0.6	9.2	0.6	12.1	0.9
Cholelithiasis 574	12.1	0.6	7.8	0.6	16.2	0.9
Acute pancreatitis 577.0	8.4	0.5	8.1	0.6	8.7	0.6
Diseases of the genitourinary system 580-629	66.4	2.7	40.6	2.1	91.2	3.6
Calculus of kidney and ureter. 592	5.9	0.3	6.1	0.4	5.6	0.4
Urinary tract infection. 599.0	14.7	0.9	8.7	0.7	20.4	1.3
Complications of pregnancy, childbirth, and the puerperium ³ 630-677	17.9	1.1	...	...	35.1	2.1
Diseases of the skin and subcutaneous tissue. 680-709	26.1	2.1	27.5	2.3	24.7	2.0
Cellulitis and abscess 681-682	19.2	1.1	20.6	1.2	17.9	1.2
Diseases of the musculoskeletal system and connective tissue 710-739	65.7	3.5	56.1	3.2	74.9	4.1
Osteoarthritis and allied disorders 715	23.8	1.9	18.1	1.8	29.3	2.2
Intervertebral disc disorders. 722	12.6	0.8	12.4	0.8	12.8	0.9
Congenital anomalies 740-759	7.0	1.0	7.8	1.3	6.3	0.9
Certain conditions originating in the perinatal period 760-779	7.0	1.2	7.8	1.4	6.1	1.1
Symptoms, signs, and ill-defined conditions 780-799	8.5	0.8	8.0	0.9	8.9	0.9
Injury and poisoning 800-999	97.3	4.3	97.0	4.9	97.5	4.2
Fractures, all sites ⁴ 800-829	35.5	1.8	32.0	1.9	38.9	2.2
Fracture of neck of femur ⁴ 820	11.3	0.7	6.5	0.5	15.8	1.1
Poisonings 960-989	8.8	0.5	7.5	0.5	10.0	0.7
Certain complications of surgical and medical care 996-999	29.8	1.5	28.4	1.7	31.2	1.5
Supplementary classifications V01-V83	173.3	7.2	28.1	2.3	313.2	13.4
Females with deliveries V27	141.4	6.7	...	...	277.7	13.2

... 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, 2004.³First-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, 2004[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	4.5	0.1
Infectious and parasitic diseases 001-139	6.6	0.2	6.9	0.3	6.4	0.2
Septicemia038	8.4	0.3	8.8	0.4	8.1	0.3
Neoplasms. 140-239	5.7	0.1	6.6	0.2	5.2	0.1
Malignant neoplasms 140-208,230-234	6.6	0.1	6.8	0.2	6.4	0.1
Malignant neoplasm of large intestine and rectum 153-154,197.5	8.6	0.3	8.2	0.4	9.0	0.5
Malignant neoplasm of trachea, bronchus, and lung 162,176.4,197.0,197.3	6.9	0.2	6.8	0.3	7.1	0.4
Benign neoplasms. 210-229	3.2	0.1	5.5	0.6	2.9	0.1
Benign neoplasm of uterus 218-219	2.5	0.1	...	...	2.5	0.1
Endocrine, nutritional and metabolic diseases, and immunity disorders. 240-279	4.0	0.1	4.1	0.1	3.9	0.1
Diabetes mellitus250	4.7	0.1	4.8	0.2	4.6	0.2
Volume depletion 276.5	3.3	0.1	3.1	0.1	3.4	0.1
Diseases of the blood and blood-forming organs 280-289	4.7	0.3	4.6	0.2	4.8	0.4
Anemias 280-285	4.9	0.4	4.7	0.3	5.0	0.6
Mental disorders 290-319	7.1	0.2	7.0	0.3	7.2	0.3
Psychoses 290-299	7.9	0.2	7.9	0.3	7.9	0.3
Schizophrenic disorders.295	10.8	0.4	10.3	0.4	11.3	0.6
Major depressive disorder 296.2-296.3	6.8	0.2	6.8	0.3	6.8	0.3
Diseases of the nervous system and sense organs. 320-389	5.3	0.2	5.7	0.3	5.0	0.2
Diseases of the circulatory system 390-459	4.7	0.1	4.5	0.1	4.9	0.1
Essential hypertension401	2.3	0.1	2.2	0.1	2.4	0.1
Heart disease 391-392.0,393-398,402,404,410-416,420-429	4.6	0.1	4.4	0.1	4.8	0.1
Acute myocardial infarction410	5.8	0.2	5.7	0.3	5.8	0.2
Coronary atherosclerosis 414.0	3.5	0.1	3.4	0.1	3.7	0.2
Other ischemic heart disease 411-413,414.1-414.9	2.7	0.2	2.4	0.2	3.0	0.4
Cardiac dysrhythmias427	3.7	0.1	3.3	0.1	4.1	0.3
Congestive heart failure 428.0,428.2-428.4	5.4	0.1	5.2	0.2	5.5	0.1
Cerebrovascular disease. 430-438	5.2	0.1	5.0	0.2	5.4	0.2
Diseases of the respiratory system 460-519	5.2	0.1	5.2	0.1	5.2	0.1
Acute bronchitis and bronchiolitis466	3.3	0.1	3.1	0.2	3.4	0.2
Pneumonia 480-486	5.5	0.1	5.3	0.2	5.7	0.1
Chronic bronchitis491	5.0	0.2	4.9	0.2	5.0	0.2
Asthma493	3.2	0.1	2.8	0.2	3.5	0.1
Diseases of the digestive system 520-579	4.7	0.1	4.7	0.1	4.7	0.1
Appendicitis. 540-543	3.1	0.1	3.2	0.2	3.1	0.1
Noninfectious enteritis and colitis 555-558	4.7	0.3	4.8	0.5	4.7	0.3
Intestinal obstruction560	6.2	0.3	5.7	0.3	6.5	0.4
Diverticula of intestine562	5.0	0.1	4.9	0.2	5.1	0.2
Cholelithiasis574	4.0	0.1	4.6	0.2	3.8	0.2
Acute pancreatitis 577.0	5.7	0.2	5.8	0.4	5.6	0.3
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	2.4	0.1	2.1	0.1	2.6	0.1
Urinary tract infection. 599.0	4.9	0.1	4.9	0.2	4.8	0.2
Complications of pregnancy, childbirth, and the puerperium ³ 630-677	2.7	0.1	...	...	2.7	0.1
Diseases of the skin and subcutaneous tissue. 680-709	5.1	0.3	5.0	0.3	5.2	0.3
Cellulitis and abscess 681-682	4.8	0.1	4.5	0.2	5.0	0.2
Diseases of the musculoskeletal system and connective tissue 710-739	3.9	0.1	3.7	0.1	4.0	0.1
Osteoarthritis and allied disorders715	3.9	0.1	3.8	0.1	3.9	0.1
Intervertebral disc disorders.722	2.8	0.1	2.5	0.1	3.1	0.1
Congenital anomalies 740-759	6.8	0.7	6.7	0.7	6.9	1.2
Certain conditions originating in the perinatal period 760-779	10.7	0.7	10.9	0.7	10.4	1.1
Symptoms, signs, and ill-defined conditions 780-799	2.7	0.2	2.7	0.4	2.6	0.1
Injury and poisoning 800-999	5.5	0.1	5.5	0.2	5.4	0.1
Fractures, all sites ⁴ 800-829	5.6	0.2	5.7	0.3	5.5	0.1
Fracture of neck of femur ⁴820	6.4	0.2	6.6	0.3	6.3	0.2
Poisonings 960-989	3.1	0.4	3.1	0.5	3.1	0.5
Certain complications of surgical and medical care 996-999	6.2	0.2	6.3	0.3	6.1	0.2
Supplementary classifications V01-V83	3.7	0.1	8.4	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 in days.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, 2004[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 procedures	45,023	1,842	2,310	397	15,110	668	11,697	520	15,905	692
Operations on the nervous system 01-05	1,291	94	236	45	398	44	318	25	339	29
Spinal tap 03.31	357	31	153	27	85	6	65	6	54	5
Operations on the endocrine system 06-07	103	8	*	*	32	4	41	5	28	3
Operations on the eye 08-17	71	9	9	2	19	3	20	5	24	4
Operations on the ear 18-20	45	6	22	5	12	3	*6	*1	*6	*1
Operations on the nose, mouth, and pharynx 21-29	309	24	63	13	115	13	62	9	68	7
Operations on the respiratory system 30-34	1,045	54	60	13	169	13	317	21	498	27
Bronchoscopy with or without biopsy 33.21-33.24,33.27	270	16	18	5	40	4	87	9	124	9
Operations on the cardiovascular system 35-39	6,993	338	226	51	675	31	2,511	133	3,581	193
Balloon angioplasty of coronary artery or coronary atherectomy 36.01-36.02,36.05	664	50	*	*	37	3	284	23	342	28
Insertion of coronary artery stent(s) 36.06-36.07	615	48	*	*	35	3	264	23	316	25
Coronary artery bypass graft ² 36.1	427	31	*	*	17	5	195	17	215	16
Cardiac catheterization 37.21-37.23	1,297	80	11	3	101	7	547	36	638	41
Insertion, replacement, removal, and revision of pacemaker leads or device 37.7-37.8	362	26	*	*	8	2	46	5	306	24
Hemodialysis 39.95	607	42	*	*	79	7	230	16	296	25
Operations on the hemic and lymphatic system 40-41	341	19	24	6	61	5	117	7	138	10
Operations on the digestive system 42-54	5,824	229	261	49	1,372	60	1,716	74	2,475	111
Endoscopy of small intestine with or without biopsy 45.11-45.14,45.16	1,115	54	18	4	160	10	319	18	619	34
Endoscopy of large intestine with or without biopsy 45.21-45.25	596	30	5	1	89	8	155	11	347	19
Partial excision of large intestine 45.7	259	15	*	*	34	4	81	6	138	10
Appendectomy, excluding incidental 47.0	332	19	81	11	172	10	57	4	22	3
Cholecystectomy 51.2	435	21	4	1	146	9	137	9	148	10
Lysis of peritoneal adhesions 54.5	342	20	6	2	141	10	104	9	91	7
Operations on the urinary system 55-59	963	52	32	7	217	16	305	21	409	27
Cystoscopy with or without biopsy 57.31-57.33	145	10	*	*	27	4	40	4	74	7
Operations on the male genital organs 60-64	242	19	24	6	15	3	72	7	130	13
Prostatectomy 60.2-60.6	161	14	*	*	*	*	54	6	106	10
Operations on the female genital organs 65-71	2,050	98	10	2	1,188	66	621	33	231	17
Oophorectomy and salpingo-oophorectomy 65.3-65.6	451	25	*	*	175	14	213	12	60	6
Bilateral destruction or occlusion of fallopian tubes 66.2-66.3	357	25	*	*	354	25	*	*	*	*
Hysterectomy 68.3-68.7,68.9	617	32	*	*	310	19	248	13	59	5
Obstetrical procedures 72-75	6,971	369	*	*	6,947	367	16	3	...	...
Episiotomy with or without forceps or vacuum extraction 72.1,72.21,72.31,72.71,73.6	667	47	*	*	665	47	*	*	...	...
Artificial rupture of membranes 73.0	941	78	*	*	937	77	*	*	...	...
Medical induction of labor 73.4	573	37	*	*	572	37	*	*	...	...
Cesarean section 74.0-74.2,74.4,74.99	1,236	64	*	*	1,230	64	*5	*1	...	...
Repair of current obstetric laceration 75.5-75.6	1,241	63	*	*	1,239	63	*	*	...	...
Operations on the musculoskeletal system 76-84	4,040	221	168	26	945	55	1,349	87	1,578	99
Partial excision of bone 76.2-76.3,77.6-77.8	172	11	11	2	52	5	65	5	44	4
Reduction of fracture 76.7,79.0-79.3	667	33	50	7	198	14	152	11	267	16
Open reduction of fracture with internal fixation 79.3	441	24	20	3	120	10	107	8	194	12
Excision or destruction of intervertebral disc 80.5	326	25	*	*	122	9	142	14	61	8
Total hip replacement 81.51	234	21	*	*	15	3	83	9	135	13
Total knee replacement 81.54	478	41	*	*	9	2	177	17	292	26
Operations on the integumentary system 85-86	1,498	105	*	*	440	38	468	27	436	23
Debridement of wound, infection, or burn 86.22,86.28	368	32	*	*	97	14	120	10	126	10
Miscellaneous diagnostic and therapeutic procedures and new technologies ³ 87-99,00	13,239	778	1,012	189	2,505	207	3,758	225	5,964	318
Computerized axial tomography 87.03,87.41,87.71,88.01,88.38	828	121	54	16	167	33	212	33	395	58
Arteriography and angiocardiology using contrast material 88.4-88.5	2,110	124	19	5	204	15	834	52	1,053	67
Diagnostic ultrasound 88.7	813	89	*	*	133	19	223	24	405	50
Physical therapy procedures 93.1-93.3	415	59	6	2	40	6	95	14	274	44
Respiratory therapy 93.9,96.7	1,157	91	228	61	156	15	276	21	497	31
Insertion of endotracheal tube 96.04	511	23	45	10	67	5	138	8	261	14
Transfusion of blood and blood components 99.0	1,815	106	69	17	229	17	464	29	1,053	71
Injection or infusion of cancer chemotherapeutic substance 99.25	235	25	50	15	40	7	89	13	55	5

* Figure does not meet standards of reliability or precision.

... Category not applicable.

¹SE is standard error.²The number of discharges with a coronary artery bypass graft was 249,000.³Chapter 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, 2004[Discharges of inpatients from non-Federal hospitals. Excludes newborn infants. Diagnostic groupings and code numbers are based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)*]

Category of first-listed diagnosis and ICD-9-CM code	All ages		Under 15 years		15-44 years		45-64 years		65 years and over	
	Rate	SE ¹	Rate	SE ¹	Rate	SE ¹	Rate	SE ¹	Rate	SE ¹
	Rate per 10,000 population ²									
All procedures	1,539.7	63.0	379.9	65.3	1,212.3	53.6	1,655.5	73.7	4,382.3	190.6
Operations on the nervous system 01-05	44.1	3.2	38.8	7.3	31.9	3.5	45.0	3.5	93.3	7.9
Spinal tap 03.31	12.2	1.1	25.2	4.4	6.8	0.5	9.2	0.8	14.9	1.4
Operations on the endocrine system 06-07	3.5	0.3	*	*	2.6	0.3	5.8	0.6	7.6	0.9
Operations on the eye 08-16	2.4	0.3	1.5	0.3	1.5	0.3	2.8	0.7	6.6	1.2
Operations on the ear 18-20	1.5	0.2	3.6	0.7	1.0	0.3	*0.8	*0.2	*1.5	*0.4
Operations on the nose, mouth, and pharynx 21-29	10.6	0.8	10.3	2.1	9.2	1.1	8.8	1.2	18.9	2.0
Operations on the respiratory system 30-34	35.7	1.8	9.9	2.1	13.6	1.0	44.9	2.9	137.2	7.5
Bronchoscopy with or without biopsy 33.21-33.24,33.27	9.2	0.5	3.0	0.8	3.2	0.3	12.3	1.2	34.1	2.4
Operations on the cardiovascular system 35-39	239.2	11.5	37.1	8.3	54.2	2.5	355.4	18.8	986.7	53.1
Balloon angioplasty of coronary artery or coronary atherectomy 36.01-36.02,36.05	22.7	1.7	*	*	3.0	0.3	40.2	3.3	94.3	7.6
Insertion of coronary artery stent(s) 36.06-36.07	21.0	1.6	*	*	2.8	0.3	37.3	3.3	87.2	6.9
Coronary artery bypass graft ³ 36.1	14.6	1.1	*	*	1.4	0.4	27.6	2.4	59.3	4.3
Cardiac catheterization 37.21-37.23	44.3	2.7	1.8	0.5	8.1	0.6	77.4	5.1	175.7	11.4
Insertion, replacement, removal, and revision of pacemaker leads or device 37.7-37.8	12.4	0.9	*	*	0.6	0.1	6.6	0.7	84.3	6.7
Hemodialysis 39.95	20.8	1.4	*	*	6.3	0.6	32.5	2.3	81.5	7.0
Operations on the hemic and lymphatic system 40-41	11.7	0.7	4.0	1.0	4.9	0.4	16.6	1.0	38.1	2.8
Operations on the digestive system 42-54	199.2	7.8	42.8	8.0	110.0	4.8	242.9	10.5	682.0	30.5
Endoscopy of small intestine with or without biopsy 45.11-45.14,45.16	38.1	1.8	2.9	0.7	12.8	0.8	45.1	2.5	170.5	9.4
Endoscopy of large intestine with or without biopsy 45.21-45.25	20.4	1.0	0.9	0.2	7.1	0.6	22.0	1.5	95.6	5.3
Partial excision of large intestine 45.7	8.8	0.5	*	*	2.8	0.3	11.4	0.9	38.1	2.7
Appendectomy, excluding incidental 47.0	11.3	0.6	13.3	1.8	13.8	0.8	8.0	0.6	5.9	0.9
Cholecystectomy 51.2	14.9	0.7	0.6	0.2	11.7	0.7	19.3	1.3	40.9	2.7
Lysis of peritoneal adhesions 54.5	11.7	0.7	1.1	0.3	11.3	0.8	14.7	1.2	25.1	2.0
Operations on the urinary system 55-59	32.9	1.8	5.3	1.1	17.4	1.3	43.2	2.9	112.7	7.4
Cystoscopy with or without biopsy 57.31-57.33	5.0	0.4	*	*	2.2	0.3	5.7	0.6	20.5	1.8
Operations on the male genital organs 60-64	8.3	0.6	3.9	1.0	1.2	0.3	10.2	1.0	35.8	3.6
Prostatectomy 60.2-60.6	5.5	0.5	*	*	*	*	7.7	0.9	29.1	2.8
Operations on the female genital organs 65-71	70.1	3.4	1.6	0.3	95.3	5.3	87.9	4.7	63.8	4.6
Oophorectomy and salpingo-oophorectomy 65.3-65.6	15.4	0.9	*	*	14.1	1.1	30.2	1.7	16.7	1.7
Bilateral destruction or occlusion of fallopian tubes 66.2-66.3	12.2	0.9	*	*	28.4	2.0	*	*	*	*
Hysterectomy 68.3-68.7,68.9	21.1	1.1	*	*	24.9	1.5	35.1	1.8	16.2	1.4
Obstetrical procedures 72-75	238.4	12.6	*	*	557.3	29.5	2.3	0.4	...	...
Episiotomy with or without forceps or vacuum extraction 72.1,72.21,72.31,72.71,73.6	22.8	1.6	*	*	53.3	3.7	*	*	...	...
Artificial rupture of membranes 73.0	32.2	2.7	*	*	75.2	6.2	*	*	...	...
Medical induction of labor 73.4	19.6	1.3	*	*	45.9	3.0	*	*	...	...
Cesarean section 74.0-74.2,74.4,74.99	42.3	2.2	*	*	98.7	5.1	*0.7	*0.2	...	...
Repair of current obstetric laceration 75.5-75.6	42.4	2.1	*	*	99.4	5.0	*	*	...	...
Operations on the musculoskeletal system 76-84	138.2	7.6	27.7	4.2	75.8	4.4	190.9	12.3	434.8	27.4
Partial excision of bone 76.2-76.3,77.6-77.8	5.9	0.4	1.9	0.4	4.2	0.4	9.2	0.8	12.2	1.2
Reduction of fracture 76.7,79.0-79.3	22.8	1.1	8.3	1.1	15.9	1.1	21.5	1.5	73.6	4.5
Open reduction of fracture with internal fixation 79.3	15.1	0.8	3.3	0.6	9.7	0.8	15.2	1.2	53.4	3.2
Excision or destruction of intervertebral disc 80.5	11.2	0.9	*	*	9.8	0.7	20.1	1.9	16.8	2.3
Total hip replacement 81.51	8.0	0.7	*	*	1.2	0.2	11.7	1.3	37.3	3.5
Total knee replacement 81.54	16.3	1.4	*	*	0.7	0.1	25.1	2.4	80.3	7.2
Operations on the integumentary system 85-86	51.2	3.6	*	*	35.3	3.0	66.3	3.8	120.0	6.3
Debridement of wound, infection, or burn 86.22,86.28	12.6	1.1	*	*	7.8	1.1	17.0	1.4	34.7	2.7
Miscellaneous diagnostic and therapeutic procedures and new technologies ⁴ 87-99,00	452.7	26.6	166.4	31.0	201.0	16.6	531.8	31.8	1,643.3	87.7
Computerized axial tomography 87.03,87.41,87.71,88.01,88.38	28.3	4.1	8.9	2.6	13.4	2.6	29.9	4.7	109.0	16.0
Arteriography and angiocardiology using contrast material 88.4-88.5	72.1	4.2	3.1	0.8	16.4	1.2	118.0	7.3	290.1	18.5
Diagnostic ultrasound 88.7	27.8	3.0	*	*	10.7	1.6	31.6	3.4	111.7	13.9
Physical therapy procedures 93.1-93.3	14.2	2.0	1.0	0.3	3.2	0.5	13.4	2.0	75.5	12.0
Respiratory therapy 93.9,96.7	39.6	3.1	37.5	10.1	12.5	1.2	39.1	2.9	137.0	8.5
Insertion of endotracheal tube 96.04	17.5	0.8	7.4	1.6	5.3	0.4	19.6	1.1	71.9	3.9
Transfusion of blood and blood components 99.0	62.1	3.6	11.3	2.8	18.4	1.4	65.7	4.2	290.2	19.6
Injection or infusion of cancer chemotherapeutic substance 99.25	8.0	0.8	8.3	2.4	3.2	0.6	12.6	1.8	15.3	1.5

* Figure does not meet standards 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, 2004.³The rate per 10,000 population of discharges with a coronary artery bypass graft was 8.5.⁴Chapter 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, 2004[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 procedures	45,023	1,842	17,671	831	27,352	1,076
Operations on the nervous system 01-05	1,291	94	562	43	729	61
Spinal tap 03.31	357	31	181	18	176	15
Operations on the endocrine system 06-07	103	8	26	4	76	6
Operations on the eye 08-16	71	9	45	6	26	5
Operations on the ear 18-20	45	6	31	5	13	2
Operations on the nose, mouth, and pharynx 21-29	309	24	198	19	110	11
Operations on the respiratory system 30-34	1,045	54	572	35	473	24
Bronchoscopy with or without biopsy 33.21-33.24,33.27	270	16	145	10	125	9
Operations on the cardiovascular system 35-39	6,993	338	3,985	199	3,009	145
Balloon angioplasty of coronary artery or coronary atherectomy 36.01-36.02,36.05	664	50	438	32	226	20
Insertion of coronary artery stent(s) 36.06-36.07	615	48	412	31	203	19
Coronary artery bypass graft ² 36.1	427	31	303	25	124	10
Cardiac catheterization 37.21-37.23	1,297	80	771	47	526	34
Insertion, replacement, removal, and revision of pacemaker leads or device 37.7-37.8	362	26	179	14	183	16
Hemodialysis 39.95	607	42	297	22	311	23
Operations on the hemic and lymphatic system 40-41	341	19	160	11	180	12
Operations on the digestive system 42-54	5,824	229	2,447	105	3,377	137
Endoscopy of small intestine with or without biopsy 45.11-45.14,45.16	1,115	54	495	24	620	33
Endoscopy of large intestine with or without biopsy 45.21-45.25	596	30	240	14	356	20
Partial excision of large intestine 45.7	259	15	114	9	145	9
Appendectomy, excluding incidental 47.0	332	19	182	11	150	10
Cholecystectomy 51.2	435	21	136	9	299	16
Lysis of peritoneal adhesions 54.5	342	20	74	6	268	17
Operations on the urinary system 55-59	963	52	443	26	519	32
Cystoscopy with or without biopsy 57.31-57.33	145	10	68	6	77	7
Operations on the male genital organs 60-64	242	19	242	19	...	...
Prostatectomy 60.2-60.6	161	14	161	14	...	...
Operations on the female genital organs 65-71	2,050	98	...	...	2,050	98
Oophorectomy and salpingo-oophorectomy 65.3-65.6	451	25	...	...	451	25
Bilateral destruction or occlusion of fallopian tubes 66.2-66.3	357	25	...	...	357	25
Hysterectomy 68.3-68.7,68.9	617	32	...	...	617	32
Obstetrical procedures 72-75	6,971	369	...	...	6,971	369
Episiotomy with or without forceps or vacuum extraction 72.1,72.21,72.31,72.71,73.6	667	47	...	...	667	47
Artificial rupture of membranes 73.0	941	78	...	...	941	78
Medical induction of labor 73.4	573	37	...	...	573	37
Cesarean section 74.0-74.2,74.4,74.99	1,236	64	...	...	1,236	64
Repair of current obstetric laceration 75.5-75.6	1,241	63	...	...	1,241	63
Operations on the musculoskeletal system 76-84	4,040	221	1,902	102	2,138	126
Partial excision of bone 76.2-76.3,77.6-77.8	172	11	89	7	84	7
Reduction of fracture 76.7,79.0-79.3	667	33	321	19	347	19
Open reduction of fracture with internal fixation 79.3	441	24	197	15	244	15
Excision or destruction of intervertebral disc 80.5	326	25	162	13	164	15
Total hip replacement 81.51	234	21	99	11	135	12
Total knee replacement 81.54	478	41	167	20	311	24
Operations on the integumentary system 85-86	1,498	105	701	68	797	44
Debridement of wound, infection, or burn 86.22,86.28	368	32	207	22	161	13
Miscellaneous diagnostic and therapeutic procedures and new technologies ³ 87-99,00	13,239	778	6,357	397	6,882	390
Computerized axial tomography 87.03,87.41,87.71,88.01,88.38	828	121	389	59	439	64
Arteriography and angiocardiology using contrast material 88.4-88.5	2,110	124	1,171	71	938	59
Diagnostic ultrasound 88.7	813	89	368	39	444	52
Physical therapy procedures 93.1-93.3	415	59	168	24	247	36
Respiratory therapy 93.9,96.7	1,157	91	588	51	569	43
Insertion of endotracheal tube 96.04	511	23	258	14	253	12
Transfusion of blood and blood components 99.0	1,815	106	759	44	1,055	68
Injection or infusion of cancer chemotherapeutic substance 99.25	235	25	131	15	104	11

... Category not applicable.

¹SE is standard error.²The number of discharges with a coronary artery bypass graft was 249,000.³Chapter 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, 2004[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
			Rate per 10,000 population ²			
All procedures	1,539.7	63.0	1,231.6	57.9	1,836.5	72.3
Operations on the nervous system 01-05	44.1	3.2	39.1	3.0	49.0	4.1
Spinal tap 03.31	12.2	1.1	12.6	1.3	11.8	1.0
Operations on the endocrine system 06-07	3.5	0.3	1.8	0.3	5.1	0.4
Operations on the eye 08-16	2.4	0.3	3.2	0.4	1.7	0.3
Operations on the ear 18-20	1.5	0.2	2.2	0.3	0.9	0.2
Operations on the nose, mouth, and pharynx 21-29	10.6	0.8	13.8	1.3	7.4	0.7
Operations on the respiratory system 30-34	35.7	1.8	39.9	2.4	31.7	1.6
Bronchoscopy with or without biopsy 33.21-33.24,33.27	9.2	0.5	10.1	0.7	8.4	0.6
Operations on the cardiovascular system 35-39	239.2	11.5	277.7	13.9	202.0	9.7
Balloon angioplasty of coronary artery or coronary atherectomy 36.01-36.02,36.05	22.7	1.7	30.5	2.2	15.1	1.4
Insertion of coronary artery stent(s) 36.06-36.07	21.0	1.6	28.7	2.2	13.6	1.2
Coronary artery bypass graft ³ 36.1	14.6	1.1	21.1	1.8	8.3	0.6
Cardiac catheterization 37.21-37.23	44.3	2.7	53.7	3.3	35.3	2.3
Insertion, replacement, removal, and revision of pacemaker leads or device 37.7-37.8	12.4	0.9	12.5	1.0	12.3	1.0
Hemodialysis 39.95	20.8	1.4	20.7	1.5	20.9	1.5
Operations on the hemic and lymphatic system 40-41	11.7	0.7	11.2	0.7	12.1	0.8
Operations on the digestive system 42-54	199.2	7.8	170.5	7.3	226.7	9.2
Endoscopy of small intestine with or without biopsy 45.11-45.14,45.16	38.1	1.8	34.5	1.7	41.6	2.2
Endoscopy of large intestine with or without biopsy 45.21-45.25	20.4	1.0	16.7	0.9	23.9	1.4
Partial excision of large intestine 45.7	8.8	0.5	7.9	0.6	9.7	0.6
Appendectomy, excluding incidental 47.0	11.3	0.6	12.7	0.8	10.0	0.7
Cholecystectomy 51.2	14.9	0.7	9.5	0.7	20.0	1.1
Lysis of peritoneal adhesions 54.5	11.7	0.7	5.2	0.4	18.0	1.1
Operations on the urinary system 55-59	32.9	1.8	30.9	1.8	34.9	2.1
Cystoscopy with or without biopsy 57.31-57.33	5.0	0.4	4.7	0.4	5.2	0.5
Operations on the male genital organs 60-64	8.3	0.6	16.8	1.3	...	...
Prostatectomy 60.2-60.6	5.5	0.5	11.2	0.9	...	...
Operations on the female genital organs 65-71	70.1	3.4	...	...	137.6	6.6
Oophorectomy and salpingo-oophorectomy 65.3-65.6	15.4	0.9	...	...	30.3	1.7
Bilateral destruction or occlusion of fallopian tubes 66.2-66.3	12.2	0.9	...	...	24.0	1.7
Hysterectomy 68.3-68.7,68.9	21.1	1.1	...	...	41.4	2.1
Obstetrical procedures 72-75	238.4	12.6	...	...	468.1	24.8
Episiotomy with or without forceps or vacuum extraction 72.1,72.21,72.31,72.71,73.6	22.8	1.6	...	...	44.8	3.1
Artificial rupture of membranes 73.0	32.2	2.7	...	...	63.2	5.2
Medical induction of labor 73.4	19.6	1.3	...	...	38.5	2.5
Cesarean section 74.0-74.2,74.4,74.99	42.3	2.2	...	...	83.0	4.3
Repair of current obstetric laceration 75.5-75.6	42.4	2.1	...	...	83.3	4.2
Operations on the musculoskeletal system 76-84	138.2	7.6	132.5	7.1	143.6	8.4
Partial excision of bone 76.2-76.3,77.6-77.8	5.9	0.4	6.2	0.5	5.6	0.5
Reduction of fracture 76.7,79.0-79.3	22.8	1.1	22.4	1.3	23.3	1.3
Open reduction of fracture with internal fixation 79.3	15.1	0.8	13.7	1.0	16.4	1.0
Excision or destruction of intervertebral disc 80.5	11.2	0.9	11.3	0.9	11.0	1.0
Total hip replacement 81.51	8.0	0.7	6.9	0.8	9.0	0.8
Total knee replacement 81.54	16.3	1.4	11.6	1.4	20.9	1.6
Operations on the integumentary system 85-86	51.2	3.6	48.8	4.8	53.5	2.9
Debridement of wound, infection, or burn 86.22,86.28	12.6	1.1	14.4	1.5	10.8	0.8
Miscellaneous diagnostic and therapeutic procedures and new technologies ⁴ 87-99,00	452.7	26.6	443.0	27.7	462.1	26.2
Computerized axial tomography 87.03,87.41,87.71,88.01,88.38	28.3	4.1	27.1	4.1	29.5	4.3
Arteriography and angiocardiology using contrast material 88.4-88.5	72.1	4.2	81.6	4.9	63.0	4.0
Diagnostic ultrasound 88.7	27.8	3.0	25.7	2.7	29.8	3.5
Physical therapy procedures 93.1-93.3	14.2	2.0	11.7	1.7	16.6	2.4
Respiratory therapy 93.9,96.7	39.6	3.1	41.0	3.6	38.2	2.9
Insertion of endotracheal tube 96.04	17.5	0.8	18.0	1.0	17.0	0.8
Transfusion of blood and blood components 99.0	62.1	3.6	52.9	3.1	70.9	4.6
Injection or infusion of cancer chemotherapeutic substance 99.25	8.0	0.8	9.2	1.0	7.0	0.8

... 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, 2004.³The rate per 10,000 population of discharges with a coronary artery bypass graft was 8.5.⁴Chapter 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 style="width: 40px; height: 20px; border: 1px solid black;" type="text"/>	4. Date of admission <table style="display: inline-table; border-collapse: collapse;"><tr><td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">Month</td><td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">Day</td><td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">Year</td></tr><tr><td style="border: 1px solid black; width: 20px; height: 20px;"></td><td style="border: 1px solid black; width: 20px; height: 20px;"></td><td style="border: 1px solid black; width: 20px; height: 20px;"></td></tr></table>	Month	Day	Year			
Month	Day	Year					
2. HDS number <input style="width: 40px; height: 20px; border: 1px solid black;" type="text"/>	5. Date of discharge <table style="display: inline-table; border-collapse: collapse;"><tr><td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">Month</td><td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">Day</td><td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">Year</td></tr><tr><td style="border: 1px solid black; width: 20px; height: 20px;"></td><td style="border: 1px solid black; width: 20px; height: 20px;"></td><td style="border: 1px solid black; width: 20px; height: 20px;"></td></tr></table>	Month	Day	Year			
Month	Day	Year					
3. (Item deleted)	6. Residence ZIP Code <input style="width: 60px; height: 20px; border: 1px solid black;" type="text"/>						

B. PATIENT CHARACTERISTICS

7. Date of birth <table style="display: inline-table; border-collapse: collapse;"><tr><td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">Month</td><td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">Day</td><td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">Year</td></tr><tr><td style="border: 1px solid black; width: 20px; height: 20px;"></td><td style="border: 1px solid black; width: 20px; height: 20px;"></td><td style="border: 1px solid black; width: 20px; height: 20px;"></td></tr></table>	Month	Day	Year				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 style="width: 100px; height: 20px;" type="text"/> 7 <input type="checkbox"/> Not stated
Month	Day	Year					
8. Age – Complete only if date of birth not given Units <input style="width: 30px; height: 20px; border: 1px solid black;" 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 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 style="width: 100px; height: 20px;" type="text"/></td><td style="text-align: center;"><input type="checkbox"/></td><td style="text-align: center;"><input type="checkbox"/></td></tr><tr><td><input type="checkbox"/> No source of payment indicated</td><td style="text-align: center;"><input type="checkbox"/></td><td style="text-align: center;"><input type="checkbox"/></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 style="width: 100px; height: 20px;" type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> No source of payment indicated	<input type="checkbox"/>	<input type="checkbox"/>
	Principal Mark one only	Other additional sources Mark all that apply																																			
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<input type="checkbox"/> No source of payment indicated	<input type="checkbox"/>	<input type="checkbox"/>																																			
14. Source of Admission – Mark (X) one 1 <input type="checkbox"/> Physician referral 7 <input type="checkbox"/> Emergency room 2 <input type="checkbox"/> Clinical referral 8 <input type="checkbox"/> Court/Law enforcement 3 <input type="checkbox"/> HMO referral 9 <input type="checkbox"/> Other – Specify <input style="width: 100px; height: 20px;" type="text"/> 4 <input type="checkbox"/> Transfer from a hospital 5 <input type="checkbox"/> Transfer from SNF 6 <input type="checkbox"/> Transfer from other health facility 10 <input type="checkbox"/> Item not available																																					
15. Status/Disposition of patient – Mark (X) appropriate box(es) <table style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 30%; text-align: left;">Status</th><th style="width: 70%; text-align: left;">Disposition</th></tr></thead><tbody><tr><td>1 <input type="checkbox"/> Alive</td><td>a. <input type="checkbox"/> Routine discharge/discharged home b. <input type="checkbox"/> Left against medical advice c. <input type="checkbox"/> Discharged, transferred to another short-term hospital d. <input type="checkbox"/> Discharged, transferred to long-term care institution e. <input type="checkbox"/> Other disposition/not stated</td></tr><tr><td>2 <input type="checkbox"/> Died</td><td></td></tr><tr><td>3 <input type="checkbox"/> Status not stated</td><td></td></tr></tbody></table>	Status	Disposition	1 <input type="checkbox"/> Alive	a. <input type="checkbox"/> Routine discharge/discharged home b. <input type="checkbox"/> Left against medical advice c. <input type="checkbox"/> Discharged, transferred to another short-term hospital d. <input type="checkbox"/> Discharged, transferred to long-term care institution e. <input type="checkbox"/> Other disposition/not stated	2 <input type="checkbox"/> Died		3 <input type="checkbox"/> Status not stated																														
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2 <input type="checkbox"/> Died																																					
3 <input type="checkbox"/> Status not stated																																					

(Over)

Figure 5. Medical abstract form for the National Hospital Discharge Survey, 2004

D. MEDICAL INFORMATION								
17. Final Diagnoses (including E-code diagnoses) (Enter ICD-9-CM codes as well as narrative if available)								
Principal: _____								
Other/additional: _____								
18. Surgical and Diagnostic Procedures (Enter ICD-9-CM codes as well as narrative if available)						Date of procedure(s)		
						Month	Day	Year
Principal: _____								
Other/additional: _____								
<input type="checkbox"/> NONE								
Completed by						Date		

Figure 5. Medical abstract form for the National Hospital Discharge Survey, 2004—Con.

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