

CHAPTER 4

HOSPITAL INPATIENT DISCHARGES AND EMERGENCY DEPARTMENT VISITS:

2011 STATUS

- 4A. INPATIENT DISCHARGES FROM SHORT-STAY HOSPITALS BY FIRST-LISTED DIAGNOSIS AND PATIENT CHARACTERISTICS**
- 4B. INPATIENT DISCHARGES FROM SHORT-STAY HOSPITALS BY ALL-LISTED PROCEDURES AND PATIENT CHARACTERISTICS**
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- 4D. INJURY-RELATED INPATIENT DISCHARGES AND EMERGENCY ROOM VISITS BY INTENT AND MECHANISM OF INJURY**



4A.

INPATIENT DISCHARGES FROM SHORT STAY HOSPITALS BY FIRST-LISTED DIAGNOSIS AND PATIENT CHARACTERISTICS

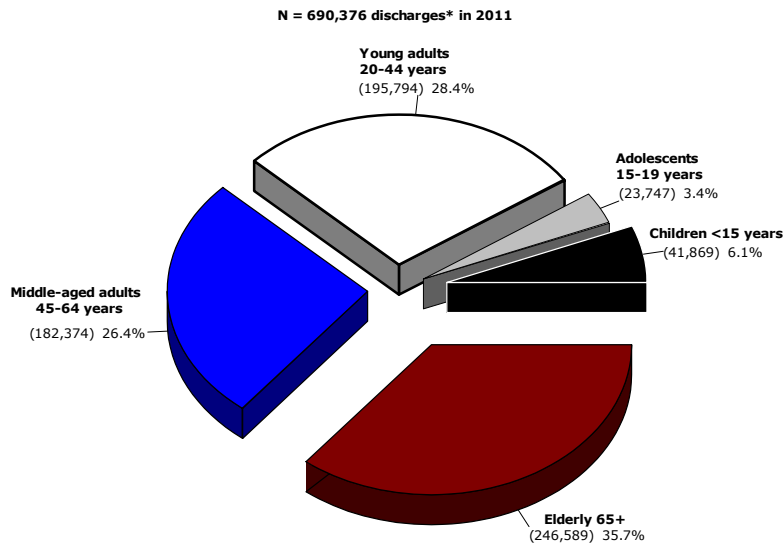
An inpatient discharge occurs when a person who was admitted to a hospital leaves that hospital. A person who has been hospitalized more than once in a given calendar year will be counted multiple times as a discharge; thus, the numbers in this report are for discharges, not persons. Federal, military, and Department of Veteran Affairs' hospitals are excluded. Beginning in 2010, the psychiatric hospitals also are required to report to the Arizona Department of Health Services. All discharges are for residents of Arizona. Discharges of out-of-state residents are not included in this report. Discharges of inpatients in this report exclude newborn infants. Diagnostic groupings and code numbers are based on the International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM).

The change in the Arizona reporting requirements increased the number of diagnoses that are coded for each discharge from nine to twenty five. In this section, discharges are presented by principal diagnosis, which is the first one listed on the discharge summary of the medical record. The number of first-listed diagnoses is the same as the number of discharges. For comparability with the national data*, the discharge rates are presented per 10,000 population. The groupings of ICD-9-CM codes used to identify specific diagnostic categories can be accessed at <http://www.azdhs.gov/plan/hip/cat/icd9primary.xls>

*Findings of the National Hospital Discharge Survey are available in bound reports of the National Center for Health Statistics and online at <http://www.cdc.gov/nchs/nhds.htm>

4A. INPATIENT DISCHARGES FROM SHORT-STAY HOSPITALS BY FIRST-LISTED DIAGNOSIS AND PATIENT CHARACTERISTICS

Figure 4A-1
Hospital Inpatient Discharges by Age Group, Arizona Residents, 2011



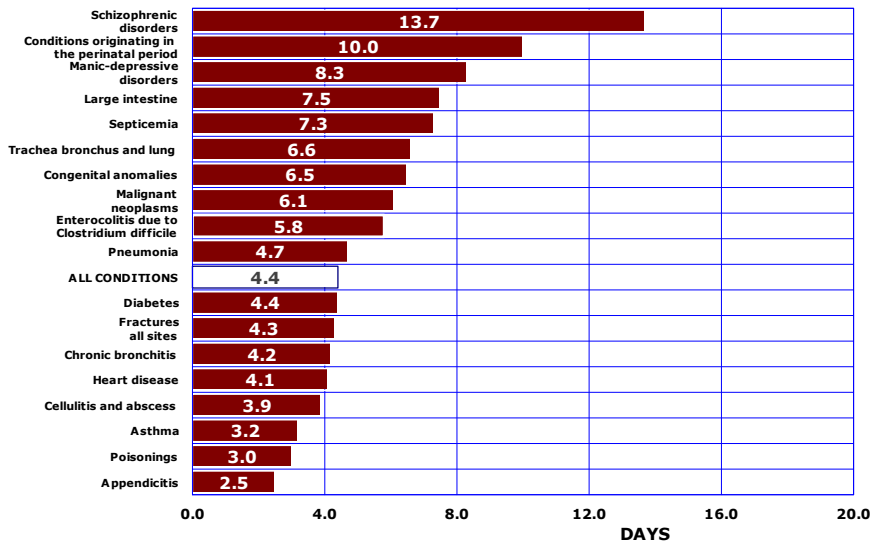
*Excluding newborn infants.

In 2011, there were 690,376 inpatients discharged, excluding newborn infants, from non-Federal short stay hospitals in Arizona (Table 4A-1). Patients who were elderly (65 years or older) accounted for 35.7 percent of hospital discharges (Figure 4A-1), followed by young adults (20-44 years old) who comprised 28.4 percent of discharges, and middle-aged adults 45-64 year olds (26.4 percent of all inpatient discharges)

The discharge rate for all ages was 1072.3 per 10,000 resident population, 0.9 percent greater than the 2010 rate. The discharge rate of 1241.2 for females was 1.4 times greater than the rate of 901.3 for males

Diseases of the circulatory system were the most common diagnoses (13.8 percent of all discharges), followed by digestive system diagnoses (10.8 percent), and injury and poisoning diagnoses (9.6 percent; percentages based on data in Table 4A-1).

Figure 4A-2
Average Length of Hospital Stay for Discharges with Selected First-listed Diagnosis, Arizona Residents, 2011



Based on the data from the National Hospital Discharge Survey*, the longest continuously running nationally representative survey of hospital utilization, the length of stay for inpatients has changed dramatically from 1970 through 2009. In 1970, the average length of stay was 7.8 days, with one-third of patients hospitalized for 8 days or more. In 2009, the average length of stay nationally was 4.9 days.

In 2011, the average length of hospital stay for Arizona inpatients was 4.4 days (Figure 4A-2, Table 4A-5). The percent of patients hospitalized for 3 days or less was 61.0 percent, with 13.3 percent of inpatients staying 8 days or more.

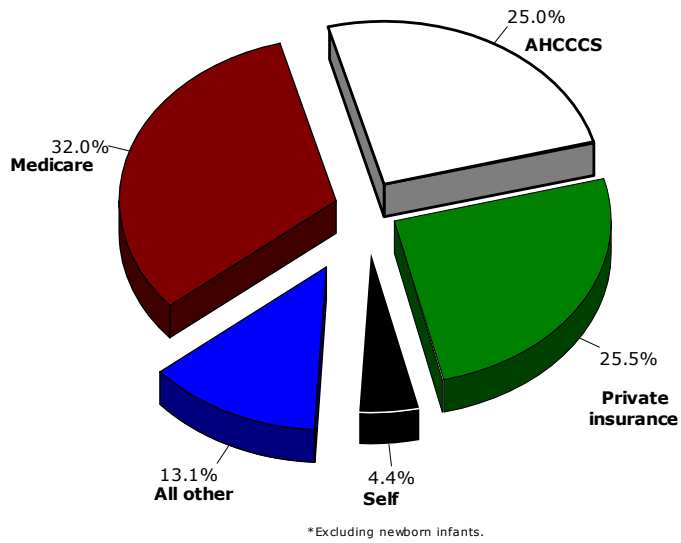
The average length of stay was 4.1 days for heart disease, 4.4 days for diabetes, 6.1 days for cancer, and 13.7 days for schizophrenic disorders.

*<http://www.cdc.gov/nchs/data/ad/ad385.pdf> and <http://www.cdc.gov/nchs/data/nhsr/nhsr005.pdf>

4A. INPATIENT DISCHARGES FROM SHORT-STAY HOSPITALS BY FIRST-LISTED DIAGNOSIS AND PATIENT CHARACTERISTICS

Figure 4A-3
Hospital Inpatient Discharges by Payer, Arizona Residents, 2011

Medicare paid for 72.4 percent of inpatient discharges of persons aged 65 years or older (**Table 4A-4**) and 32.0 percent of all discharges (**Figure 4A-3**). Private insurance was the second most frequently recorded expected source of payment, accounting for 25.5 percent of inpatient discharges. The Arizona Health Care Cost Containment System (the State's Medicaid Program) accounted for 25.0 percent.

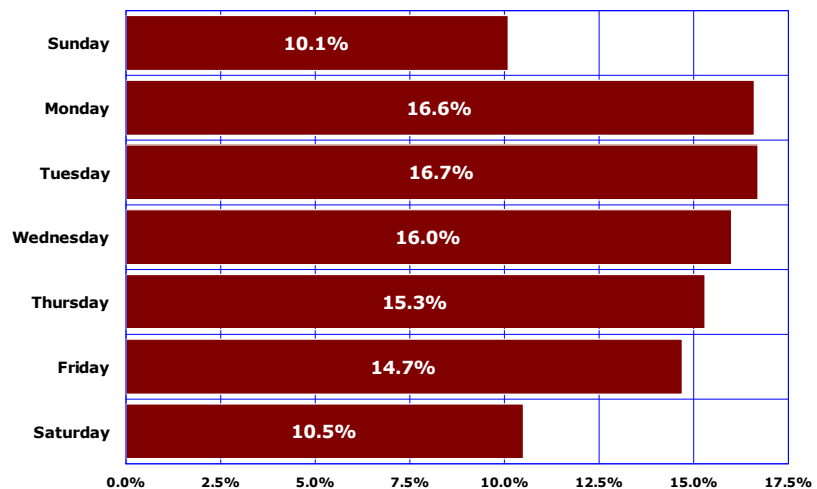


Indemnity, HMO, PPO.

**The Arizona Health Care Cost Containment System is the State's Medicaid Program.

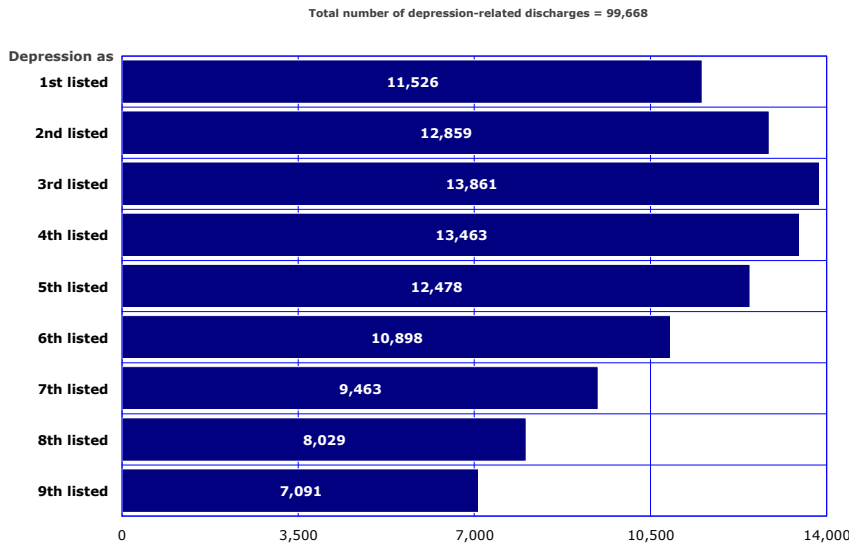
Figure 4A-4
Percent of Hospital Inpatient Admissions by Day of the Week, Arizona Residents, 2011

The rhythm of hospital births by day of the week (see **Figure 1B-14**) reveals that the daily average of resident live births in 2011 was substantially lower on weekends than on weekdays. The same pattern applies to hospital inpatient admissions excluding newborn infants (**Figure 4A-4**).



4A. INPATIENT DISCHARGES FROM SHORT-STAY HOSPITALS BY FIRST-LISTED DIAGNOSIS AND PATIENT CHARACTERISTICS

Figure 4A-5
Number of Depression-related* Inpatient Discharges and Emergency Room Visits of Arizona Residents, 2011



ICD-9-CM diagnostic codes 300.4 and 311.

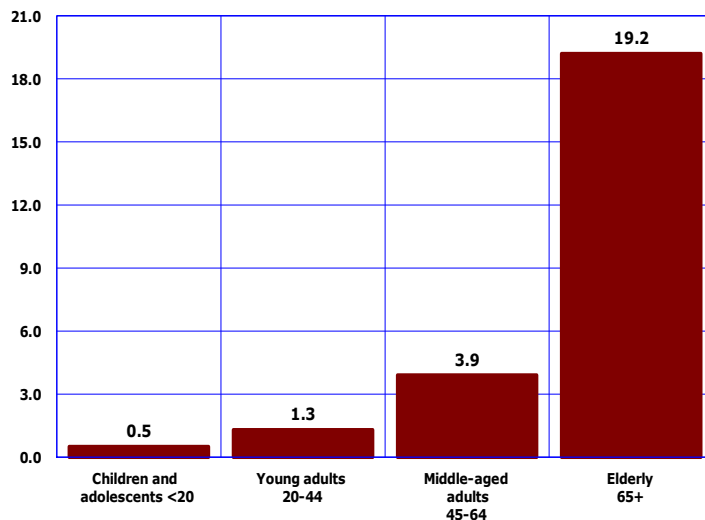
In 2011, the ICD-9-CM diagnostic codes 300.4 and 311 for depression were used on 2,846 inpatient discharge and 3,535 emergency room records as the first-listed diagnosis (for a total of 6,381 hospital encounters; **Figure 4A-5, Table 4A-1, Table 7C-1**).

The extent to which the first-listed diagnosis is the principal reason for hospitalization ought not to be overestimated. More often than not, the first-listed diagnosis is the immediate, but not necessarily the underlying cause of hospitalization.

However, when we count all entries of this code within the nine diagnostic fields, depression was mentioned on 99,688 inpatient discharge and emergency room records. In fact, the depression diagnosis was substantially more frequently present as 2nd – 5th listed on the medical record than it was first-listed (**Figure 4A-5**).

When hospital data is used to estimate the prevalence of depression, it makes sense to include all mentions of this disorder in all diagnostic fields, not just the first one.

Figure 4A-6
Inpatient Hospitalization Rates* for Enterocolitis due to *Clostridium difficile* By Age Group, Arizona Residents, 2011



In 2011, 2,748 Arizonans were hospitalized with the diagnosis of enterocolitis due to *Clostridium difficile*, a bacterial inflammation of the intestines (**Table 4A-1**). The disease is of growing public health concern because it is often acquired in hospitals and other health care institutions with long-term patients as residents.

The inpatient hospitalization rates associated with enterocolitis due to *Clostridium difficile* tend to increase with age. The rate for the elderly 65 years or older (19.2/10,000) was 4.9 times greater than the rate of middle-aged adults (**Figure 4A-6**).

The disparity in enterocolitis-related hospitalization rates was 1.8 times as high for females (5.5 inpatient discharges per 10,000) as for males (3.1/10,000).

In 2011, 186 Arizonans died from enterocolitis due to *Clostridium difficile* (**Table 2B-6**). Elderly 65 years or older accounted for 86.6 percent of these deaths (**Table 2C-27**).

**TABLE 4A-1
NUMBER OF DISCHARGES* BY FIRST-LISTED DIAGNOSIS AND AGE GROUP, ARIZONA, 2011**

Category of first-listed diagnosis	Total	Age group					Unknown
		Children <15 years	Adolescents 15-19 years	Young adults 20-44 years	Middle-aged adults 45-64 years	Elderly 65+ years	
All categories	690,376	41,869	23,747	195,794	182,374	246,589	3
Infectious and parasitic diseases	31,658	1,692	501	5,536	9,567	14,361	1
Septicemia	19,852	207	198	2,979	6,029	10,439	0
Enterocolitis due to <i>Clostridium difficile</i>	2,748	71	18	283	670	1,706	0
Neoplasms	26,003	476	193	3,522	10,122	11,690	0
Malignant neoplasms	19,754	336	114	1,761	7,487	10,056	0
Large intestine	2,294	0	0	133	737	1,424	0
Prostate	1,626	0	0	9	869	748	0
Trachea bronchus and lung	2,422	5	7	93	685	1,632	0
Breast	1,244	0	0	156	614	474	0
Benign neoplasms	5,148	95	56	1,610	2,292	1,095	0
Endocrine nutritional metabolic and immunity diseases	25,551	1,692	603	6,218	8,845	8,193	0
Diabetes mellitus	11,444	414	421	3,536	4,349	2,724	0
Volume depletion	70	0	0	11	23	36	0
Morbid obesity	1,717	0	6	739	774	198	0
Diseases of the blood and blood forming organs	7,347	740	219	1,516	1,930	2,942	0
Mental disorders	41,130	2,045	4,226	18,815	12,730	3,313	1
Psychoses	32,083	1,683	3,137	14,605	10,085	2,573	0
Alcoholic psychoses	3,349	1	17	1,293	1,761	277	0
Drug psychoses	2,422	14	366	1,256	582	204	0
Schizophrenic disorders	5,286	12	159	3,097	1,861	157	0
Manic-depressive disorders	18,169	1,546	2,299	7,879	5,267	1,178	0
Neurotic disorders	9,046	362	1,089	4,209	2,645	740	1
Anxiety states	767	16	58	298	252	143	0
Depression	2,846	137	416	1,343	750	199	1
Drug dependence	1,122	3	254	638	198	29	0
Nondependent abuse of drugs	694	14	86	341	209	44	0
Alcohol dependence syndrome	1,560	0	19	645	763	133	0
Diseases of the nervous system	16,532	1,898	624	4,057	4,670	5,283	0
Diseases of the circulatory system	94,959	398	220	6,512	28,134	59,695	0
Heart disease	60,509	207	113	3,601	17,931	38,657	0
Acute myocardial infarction	10,088	0	1	445	3,649	5,993	0
Coronary atherosclerosis	10,524	0	0	298	3,984	6,242	0

**TABLE 4A-1 (continued)
NUMBER OF DISCHARGES* BY FIRST-LISTED DIAGNOSIS AND AGE GROUP, ARIZONA, 2011**

Category of first-listed diagnosis	Total	Age group					Unknown
		Children <15 years	Adolescents 15-19 years	Young adults 20-44 years	Middle-aged adults 45-64 years	Elderly 65+ years	
Other ischemic heart disease	1,119	2	0	100	445	572	0
Cardiac dysrhythmias	15,513	99	46	965	3,930	10,473	0
Cardiac arrest	145	12	1	15	49	68	0
Congestive heart failure	2,933	25	1	121	648	2,138	0
Cerebrovascular disease	17,010	45	15	874	4,571	11,505	0
Diseases of the respiratory system	62,561	11,861	804	6,240	15,757	27,899	0
Acute bronchitis and bronchiolitis	5,014	3,797	6	202	374	635	0
Pneumonia	19,079	2,977	218	1,927	4,503	9,454	0
Chronic bronchitis	10,240	1	0	167	3,371	6,701	0
Asthma	7,583	2,446	155	1,407	2,064	1,511	0
Diseases of the digestive system	74,503	4,332	2,169	19,020	24,200	24,782	0
Appendicitis	7,269	1,854	898	2,672	1,271	574	0
Noninfectious enteritis and colitis	6,153	434	173	1,599	1,769	2,178	0
Diverticula of intestine	5,997	0	3	856	2,191	2,947	0
Cholelithiasis	9,440	67	360	3,704	2,812	2,497	0
Diseases of the genitourinary system	37,248	1,883	725	8,904	10,348	15,388	0
Calculus of kidney and ureter	4,305	51	118	1,510	1,591	1,035	0
Diseases of the skin and subcutaneous tissue	16,801	1,687	423	4,669	5,614	4,408	0
Cellulitis and abscess	14,516	1,448	345	4,131	4,846	3,746	0
Diseases of the musculoskeletal system	42,191	699	371	4,716	15,953	20,452	0
Osteoarthritis and allied disorders	19,727	1	4	431	7,545	11,746	0
Invertebral disc disorders	5,083	3	16	1,436	2,246	1,382	0
Congenital anomalies	2,837	1,762	146	388	346	195	0
Conditions originating in perinatal period	3,051	3,050	1	0	0	0	0
Symptoms signs and ill-defined conditions	31,798	2,628	580	5,796	10,820	11,974	0
Injury and poisoning	66,544	3,845	2,361	15,960	18,936	25,441	1
Fractures, all sites	22,437	1,359	735	4,330	4,832	11,181	0
Fracture of neck of femur	6,090	23	11	98	704	5,254	0
Poisonings	7,496	381	507	3,220	2,521	867	0

*Excluding newborn infants.

**TABLE 4A-2
NUMBER OF DISCHARGES* BY FIRST-LISTED DIAGNOSIS AND GENDER, ARIZONA, 2011**

Category of first-listed diagnosis	Total	Patient's gender		
		Female	Male	Unknown
All categories	690,376	402,051	288,317	8
Infectious and parasitic diseases	31,658	16,385	15,273	0
Septicemia	19,852	10,144	9,708	0
Enterocolitis due to <i>Clostridium difficile</i>	2,748	1,767	981	0
Neoplasms	26,003	14,527	11,476	0
Malignant neoplasms	19,754	9,799	9,955	0
Large intestine	2,294	1,069	1,225	0
Prostate	1,626	0	1,626	0
Trachea bronchus and lung	2,422	1,177	1,245	0
Breast	1,244	1,227	17	0
Benign neoplasms	5,148	4,184	964	0
Endocrine nutritional metabolic and immunity diseases	25,551	13,618	11,933	0
Diabetes mellitus	11,444	5,057	6,387	0
Volume depletion	70	36	34	0
Morbid obesity	1,717	1,270	447	0
Diseases of the blood and blood forming organs	7,347	4,183	3,163	1
Mental disorders	41,130	19,745	21,383	2
Psychoses	32,083	15,306	16,775	2
Alcoholic psychoses	3,349	968	2,381	0
Drug psychoses	2,422	1,006	1,416	0
Schizophrenic disorders	5,286	1,959	3,327	0
Manic-depressive disorders	18,169	10,165	8,002	2
Neurotic disorders	9,046	4,438	4,608	0
Anxiety states	767	465	302	0
Depression	2,846	1,457	1,389	0
Drug dependence	1,122	437	685	0
Nondependent abuse of drugs	694	222	472	0
Alcohol dependence syndrome	1,560	623	937	0
Diseases of the nervous system	16,532	9,214	7,318	0
Diseases of the circulatory system	94,959	43,090	51,869	0
Heart disease	60,509	25,811	34,698	0
Acute myocardial infarction	10,088	3,673	6,415	0
Coronary arteriosclerosis	10,524	3,467	7,057	0

**TABLE 4A-2 (continued)
NUMBER OF DISCHARGES* BY FIRST-LISTED DIAGNOSIS AND GENDER, ARIZONA, 2011**

Category of first-listed diagnosis	Total	Patient's gender		
		Female	Male	Unknown
Other ischemic heart disease	1,119	461	658	0
Cardiac dysrhythmias	15,513	7,479	8,034	0
Cardiac arrest	145	58	87	0
Congestive heart failure	2,933	1,308	1,625	0
Cerebrovascular disease	17,010	8,753	8,257	0
Diseases of the respiratory system	62,561	32,106	30,455	0
Acute bronchitis and bronchiolitis	5,014	2,394	2,620	0
Pneumonia	19,079	9,618	9,461	0
Chronic bronchitis	10,240	5,573	4,667	0
Asthma	7,583	4,538	3,045	0
Diseases of the digestive system	74,503	40,589	33,914	0
Appendicitis	7,269	3,275	3,994	0
Noninfectious enteritis and colitis	6,153	3,870	2,283	0
Diverticula of intestine	5,997	3,338	2,659	0
Cholelithiasis	9,440	6,222	3,218	0
Diseases of the genitourinary system	37,248	23,516	13,732	0
Calculus of kidney and ureter	4,305	2,001	2,304	0
Diseases of the skin and subcutaneous tissue	16,801	7,809	8,992	0
Cellulitis and abscess	14,516	6,728	7,788	0
Diseases of the musculoskeletal system	42,191	23,225	18,966	0
Osteoarthritis and allied disorders	19,727	11,630	8,097	0
Intervertebral disc disorders	5,083	2,489	2,594	0
Congenital anomalies	2,837	1,297	1,540	0
Conditions originating in perinatal period	3,051	1,313	1,736	2
Symptoms signs and ill-defined conditions	31,798	17,442	14,355	1
Injury and poisoning	66,544	32,940	33,602	2
Fractures, all sites	22,437	12,160	10,276	1
Fracture of neck of femur	6,090	4,124	1,966	0
Poisonings	7,496	4,025	3,471	0

*Excluding newborn infants.

**TABLE 4A-3
NUMBER OF DISCHARGES* BY FIRST-LISTED DIAGNOSIS AND RACE/ETHNICITY, ARIZONA, 2011**

Category of first-listed diagnosis	Total	Race/ethnicity							Other	Refused
		American Indian or Alaska Native	Asian or other Pacific Islander	Black or African American	Hispanic or Latino	White non-Hispanic				
Total	690,376	26,875	10,638	33,277	129,566	481,432	580	8,008		
Infectious and parasitic diseases	31,658	1,660	502	1,526	5,835	21,823	7	305		
Septicemia	19,852	1,207	282	834	3,503	13,852	3	171		
Enterocolitis due to <i>Clostridium difficile</i>	2,748	82	19	81	278	2,263	0	25		
Neoplasms	26,003	501	492	1,140	3,597	19,903	6	364		
Malignant neoplasms	19,754	375	366	683	2,435	15,623	5	267		
Large intestine	2,294	41	44	69	293	1,819	0	28		
Prostate	1,626	11	20	75	148	1,339	0	33		
Trachea bronchus and lung	2,422	23	49	92	174	2,072	0	12		
Breast	1,244	14	29	41	150	997	0	13		
Benign neoplasms	5,148	103	111	407	1,035	3,408	1	83		
Endocrine nutritional metabolic and immunity diseases	25,551	1,624	312	1,640	5,274	16,468	1	232		
Diabetes mellitus	11,444	1,065	76	881	2,836	6,500	0	86		
Volume depletion	70	7	1	5	4	51	0	2		
Morbid obesity	1,717	22	9	111	243	1,313	0	19		
Diseases of the blood and blood forming organs	7,347	253	97	1,042	1,329	4,552	5	69		
Mental disorders	41,130	1,400	666	2,327	5,474	30,499	16	748		
Psychoses	32,083	960	530	1,950	4,238	23,812	5	588		
Alcoholic psychoses	3,349	265	21	102	309	2,615	2	35		
Drug psychoses	2,422	27	30	68	269	2,002	0	26		
Schizophrenic disorders	5,286	154	108	578	906	3,438	0	102		
Manic-depressive disorders	18,169	433	303	931	2,271	13,867	2	362		
Neurotic disorders	9,046	440	136	377	1,235	6,687	11	160		
Anxiety states	767	13	9	32	143	551	2	17		
Depression	2,846	124	68	132	427	2,032	4	59		
Drug dependence	1,122	16	4	35	131	916	0	20		
Nondependent abuse of drugs	694	66	6	38	96	479	0	9		
Alcohol dependence syndrome	1,560	134	10	45	128	1,226	2	15		
Diseases of the nervous system	16,532	636	218	951	2,821	11,689	2	215		
Diseases of the circulatory system	94,959	2,065	1,187	4,474	11,437	74,787	18	991		
Heart disease	60,509	1,259	683	2,618	6,815	48,505	8	621		
Acute myocardial infarction	10,088	226	128	331	1,326	7,944	2	131		
Coronary atherosclerosis	10,524	213	140	326	1,244	8,481	0	120		

**TABLE 4A-3 (continued)
NUMBER OF DISCHARGES* BY FIRST-LISTED DIAGNOSIS AND RACE/ETHNICITY, ARIZONA, 2011**

Category of first-listed diagnosis	Total	Race/ethnicity							Other	Refused
		American Indian or Alaska Native	Asian or Pacific Islander	Black or African American	Hispanic or Latino	White non-Hispanic				
Other ischemic heart disease	1,119	27	11	58	147	863	0	13		
Cardiac dysrhythmias	15,513	248	155	499	1,364	13,096	4	147		
Cardiac arrest	145	9	1	3	27	100	0	5		
Congestive heart failure	2,933	76	21	153	352	2,308	0	23		
Cerebrovascular disease	17,010	334	284	682	2,112	13,363	6	229		
Diseases of the respiratory system	62,561	2,878	736	3,166	10,760	44,367	14	640		
Acute bronchitis and bronchiolitis	5,014	420	86	243	1,779	2,405	5	76		
Pneumonia	19,079	1,013	242	780	3,249	13,629	2	164		
Chronic bronchitis	10,240	104	61	309	713	9,002	2	49		
Asthma	7,583	350	78	864	1,743	4,452	2	94		
Diseases of the digestive system	74,503	3,234	884	2,925	15,173	51,557	15	715		
Appendicitis	7,269	227	113	219	2,378	4,224	5	103		
Noninfectious enteritis and colitis	6,153	151	77	262	886	4,723	1	53		
Diverticula of intestine	5,997	105	48	201	900	4,695	0	48		
Cholelithiasis	9,440	520	124	284	2,906	5,515	2	89		
Diseases of the genitourinary system	37,248	1,314	438	1,672	7,238	26,206	9	371		
Calculus of kidney and ureter	4,305	83	53	109	852	3,165	0	43		
Diseases of the skin and subcutaneous tissue	16,801	1,061	127	723	3,164	11,571	5	150		
Cellulitis and abscess	14,516	930	102	562	2,785	10,017	5	115		
Diseases of the musculoskeletal system	42,191	984	340	1,414	4,422	34,563	7	461		
Osteoarthritis and allied disorders	19,727	260	129	505	1,613	16,990	3	227		
Invertebral disc disorders	5,083	82	53	180	511	4,200	1	56		
Congenital anomalies	2,837	160	42	115	764	1,690	0	66		
Conditions originating in perinatal period	3,051	231	73	163	1,021	1,464	3	96		
Symptoms signs and ill-defined conditions	31,798	1,104	327	1,941	5,415	22,700	7	304		
Injury and poisoning	66,544	3,612	737	2,647	10,160	48,561	16	811		
Fractures, all sites	22,437	1,144	219	512	3,105	17,209	6	242		
Fracture of neck of femur	6,090	130	42	50	507	5,316	2	43		
Poisonings	7,496	346	64	362	1,090	5,540	3	91		

*Excluding newborn infants.

**TABLE 4A-4
NUMBER OF DISCHARGES* BY PRIMARY PAYER, GENDER, AGE GROUP, RACE/ETHNICITY,
AND MARITAL STATUS, ARIZONA, 2011**

Selected characteristics		Total	Self	Private insurance (indemnity, HMO, PPO)	AHCCCS/Medicaid	Medicare	Other
Total		690,376	30,311	176,248	172,399	221,114	90,304
Gender	Female	402,051	14,346	109,036	110,753	118,127	49,789
	Male	288,317	15,964	67,210	61,643	102,986	40,514
	Unknown	8	1	2	3	1	1
Age group	Children <15 years	41,869	1,254	13,466	24,056	78	3,015
	Adolescents 15-19 years	23,747	1,179	7,534	13,401	147	1,486
	Young adults 20-44 years	195,794	14,059	70,946	85,530	10,156	15,103
	Middle-aged adults 45-64 years	182,374	11,825	71,696	45,771	32,248	20,834
	Elderly 65+ years	246,589	1,993	12,605	3,641	178,484	49,866
	Unknown	3	1	1	0	1	0
Race/ethnicity	American Indian or Alaska Native	26,875	1,114	3,671	10,220	6,078	5,792
	Asian or Pacific Islander	10,638	529	4,151	2,840	2,037	1,081
	Black or African American	33,277	1,635	6,873	12,975	7,945	3,849
	Hispanic or Latino	129,566	8,820	25,612	61,949	20,757	12,428
	White non-Hispanic	481,432	17,773	133,243	81,985	182,324	66,107
	Other	580	11	85	108	329	47
	Refused	8,008	429	2,613	2,322	1,644	1,000
Patient's marital status	Single	247,449	15,968	57,945	112,763	36,175	24,598
	Married	295,566	9,602	101,953	37,821	106,619	39,571
	Separated	6,884	576	1,258	2,668	1,617	765
	Divorced	56,998	2,814	10,547	14,126	20,800	8,711
	Widowed	79,445	1,052	3,808	3,529	54,807	16,249
	Unknown	3,759	297	714	1,244	1,094	410
	Not Applicable	275	2	23	248	2	0

*Excluding newborn infants.

**TABLE 4A-5
AVERAGE LENGTH OF STAY FOR DISCHARGES* BY FIRST-LISTED DIAGNOSIS AND AGE GROUP, ARIZONA, 2011**

Category of first-listed diagnosis	All ages	Patient's age group					
		Children <15 years	Adolescents 15-19 years	Young adults 20-44 years	Middle- aged adults 45-64 years	Elderly 65+ years	Unknown
All conditions	4.4	4.3	3.9	3.6	4.8	4.9	4.3
Infectious and parasitic diseases	6.4	4.2	4.5	5.6	7.0	6.6	7.0
Septicemia	7.3	11.6	5.4	6.5	7.9	7.0	0.0
Enterocolitis due to <i>Clostridium difficile</i>	5.8	4.5	4.2	4.7	5.9	6.0	0.0
Neoplasms	5.5	11.3	8.0	4.5	5.1	5.9	0.0
Malignant neoplasms	6.1	13.4	10.6	6.3	5.6	6.1	0.0
Large intestine	7.5	0.0	0.0	6.1	7.2	7.8	0.0
Prostate	2.0	0.0	0.0	1.2	1.9	2.2	0.0
Trachea bronchus and lung	6.6	25.0	6.9	6.5	6.7	6.5	0.0
Breast	2.0	0.0	0.0	2.3	2.1	1.8	0.0
Benign neoplasms	3.4	6.2	3.1	2.6	3.1	5.1	0.0
Endocrine nutritional metabolic and immunity diseases	3.7	3.1	2.9	3.3	4.1	3.9	0.0
Diabetes mellitus	4.4	2.6	2.3	3.4	5.1	5.0	0.0
Volume depletion	2.4	0.0	0.0	3.1	2.2	2.3	0.0
Morbid obesity	2.1	0.0	1.5	2.0	2.2	2.3	0.0
Diseases of the blood and blood forming organs	3.9	4.0	4.3	4.1	4.0	3.7	0.0
Mental disorders	7.9	7.8	7.6	7.5	8.2	9.8	6.0
Psychoses	8.6	8.2	8.0	8.2	9.0	10.9	0.0
Alcoholic psychoses	4.8	4.0	6.2	4.2	5.0	6.3	0.0
Drug psychoses	5.0	5.6	7.0	4.7	4.7	4.3	0.0
Schizophrenic disorders	13.7	15.9	15.2	12.7	14.5	21.0	0.0
Manic-depressive disorders	8.3	8.2	7.4	7.5	8.9	12.9	0.0
Neurotic disorders	5.4	6.1	6.6	5.1	5.2	5.9	6.0
Anxiety states	4.7	4.3	4.9	4.8	4.1	5.8	0.0
Depression	5.8	6.6	6.0	5.2	6.1	7.3	6.0
Drug dependence	6.7	21.0	8.3	5.9	6.7	7.9	0.0
Nondependent abuse of drugs	2.5	1.4	4.3	2.0	2.5	2.3	0.0
Alcohol dependence syndrome	5.4	0.0	7.6	5.6	5.3	4.8	0.0
Diseases of the nervous system	4.2	3.5	3.8	3.4	4.0	5.3	0.0
Diseases of the circulatory system	4.0	6.5	4.5	4.0	4.0	4.0	0.0
Heart disease	4.1	6.7	3.5	4.0	3.9	4.2	0.0
Acute myocardial infarction	4.3	0.0	3.0	3.3	3.9	4.6	0.0
Coronary atherosclerosis	3.6	0.0	0.0	2.9	3.3	3.8	0.0

**TABLE 4A-5 (continued)
AVERAGE LENGTH OF STAY FOR DISCHARGES* BY FIRST-LISTED DIAGNOSIS AND AGE GROUP, ARIZONA, 2011**

Category of first-listed diagnosis	All ages	Patient's age group					
		Children <15 years	Adolescents 15-19 years	Young adults 20-44 years	Middle-aged adults 45-64 years	Elderly 65+ years	Unknown
Other ischemic heart disease	2.6	7.0	0.0	2.7	2.4	2.7	0.0
Cardiac dysrhythmias	3.0	3.5	1.6	2.3	2.8	3.1	0.0
Cardiac arrest	1.8	1.8	1.0	2.5	2.1	1.4	0.0
Congestive heart failure	3.9	10.1	11.0	3.2	4.0	3.9	0.0
Cerebrovascular disease	3.8	11.3	11.9	4.6	4.4	3.4	0.0
Diseases of the respiratory system	5.0	3.1	4.2	4.7	5.7	5.6	0.0
Acute bronchitis and bronchiolitis	3.1	3.1	2.5	2.9	2.9	3.1	0.0
Pneumonia	4.7	3.4	5.1	4.7	4.8	5.0	0.0
Chronic bronchitis	4.2	2.0	0.0	3.3	3.9	4.3	0.0
Asthma	3.2	2.2	2.5	3.0	3.8	4.2	0.0
Diseases of the digestive system	4.1	3.3	3.1	3.3	4.2	4.7	0.0
Appendicitis	2.5	2.8	1.9	2.0	2.9	4.0	0.0
Noninfectious enteritis and colitis	4.1	3.3	6.1	3.7	4.0	4.5	0.0
Diverticula of intestine	4.4	0.0	6.7	3.9	4.4	4.6	0.0
Cholelithiasis	3.3	3.4	2.7	2.5	3.3	4.5	0.0
Diseases of the genitourinary system	3.3	3.0	2.7	2.6	3.3	3.8	0.0
Calculus of kidney and ureter	2.2	2.3	2.1	2.1	2.2	2.6	0.0
Diseases of the skin and subcutaneous tissue	4.2	2.4	2.9	3.8	4.6	5.1	0.0
Cellulitis and abscess	3.9	2.3	2.8	3.6	4.2	4.5	0.0
Diseases of the musculoskeletal system	3.3	3.6	4.7	3.4	3.2	3.3	0.0
Osteoarthritis and allied disorders	2.8	4.0	2.5	2.7	2.7	2.9	0.0
Invertebral disc disorders	2.7	2.3	4.3	2.4	2.6	3.2	0.0
Congenital anomalies	6.5	8.0	4.3	3.9	4.3	4.0	0.0
Conditions originating in perinatal period	10.1	10.1	19.0	0.0	0.0	0.0	0.0
Symptoms signs and ill-defined conditions	2.5	2.7	2.2	2.4	2.3	2.6	0.0
Injury and poisoning	4.6	3.3	3.4	4.0	4.9	4.9	0.0
Fractures, all sites	4.3	2.2	3.4	3.9	4.5	4.7	0.0
Fracture of neck of femur	5.2	2.7	3.2	5.8	5.1	5.2	0.0
Poisonings	3.0	1.5	2.1	2.7	3.4	3.7	0.0

*Excluding newborn infants.



4B.

INPATIENT DISCHARGES FROM SHORT-STAY HOSPITALS BY ALL-LISTED PROCEDURES AND PATIENT CHARACTERISTICS

The data on the number of procedures in this section are for inpatients only. Procedures include surgical and non-surgical operations, diagnostic procedures, and special treatments reported on the medical record. Up to six procedures were included for each discharge. These all-listed procedures include all occurrences of the procedure regardless of the order on the medical record. Procedure groupings and code numbers are based on the International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM).

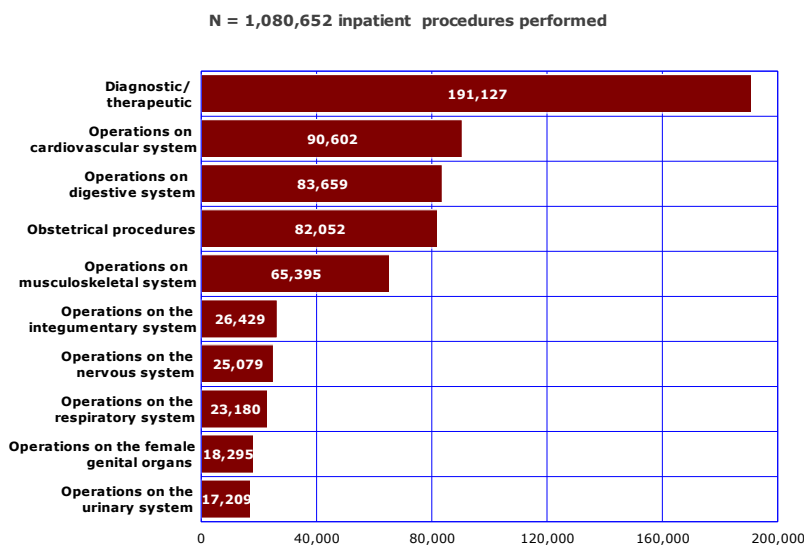
For comparability with the national data*, the rates of all-listed procedures are presented per 10,000 population. The groupings of ICD-9-CM codes used to identify specific procedure categories can be accessed at <http://www.azdhs.gov/plan/hip/cat/icd9procedure.xls>

Beginning in 2008, Arizona hospitals may report up to 12 surgical and non-surgical procedures per record, doubling the previously required number. However, not all hospitals have been able to meet the revised requirements. This is one reason why, in our 2008 - 2011 reports, we continue to analyze the top six procedures. Another reason is comparability with the previously published data for 2000-2007.

*Findings of the National Hospital Discharge Survey, including estimates of the number of specific procedure categories, are available in bound reports of the National Center for Health Statistics and online at <http://www.cdc.gov/nchs/nhds.htm>. The survey collects the data on up to four surgical and non-surgical procedures.

4B. INPATIENT DISCHARGES FROM SHORT-STAY HOSPITALS BY ALL-LISTED PROCEDURES AND PATIENT CHARACTERISTICS

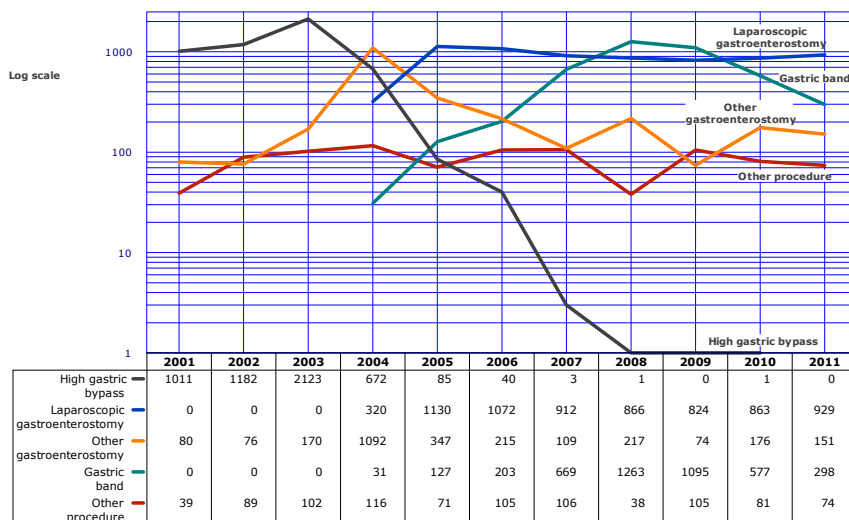
Figure 4B-1
Ten Leading Categories of All-listed Inpatient Procedures,
Arizona Residents, 2011



During 2011, 1,080,652 procedures were performed on hospital inpatients in Arizona. The rate of procedures was 1678.5 per 10,000 population. For Arizona males, this rate was 1470.1/10,000, and for Arizona females it was 1884.2/10,000.

No specific procedure was recorded for approximately 38.8 percent of all inpatient discharges. Only 5.9 percent of inpatients had six procedures reported. Among the inpatient discharges which had one or more specific procedures recorded, the most frequent were diagnostic and therapeutic procedures (such as arteriography and angiocardiology or respiratory therapy), and followed by operations on the cardiovascular system, operations on digestive system, and obstetrical procedures (Figure 4B-1, Table 4B1).

Figure 4B-2
Trends in Types of Inpatient Procedures Performed in Treatment of Morbid Obesity, Arizona Residents, 2001-2011



Bariatrics is a branch of medicine that deals with the surgical treatment of obesity. Bariatric surgery has seen a rather dramatic increase in its popularity. A typical candidate for gastrointestinal surgery has a body mass index (BMI) of 40 or more – about 100 pounds overweight for men and 80 pounds for women. Bariatric surgery may also be considered for someone whose BMI is between 35 and 39.9 and who has a serious obesity-related health problem (such as type 2-diabetes, heart disease, or severe sleep apnea).

In 2011, **morbid obesity** (ICD-9-CM code 278.01) was the principal diagnosis for 1,717 inpatient hospitalizations for (Table 4A-1). The number of *gastric bypass* surgeries, once the most common bariatric procedure, declined from a recent high of 2,123 in 2003 to only 1 in 2008 and 2010 (none reported for 2011; Figure 4B-2). Not a single *laparoscopic gastroenterostomy* procedure was reported in Arizona prior to 2004. In 2011, it was the most popular, with 929 procedures performed.

*Among Arizonans who were admitted as inpatients with first-listed diagnosis of morbid obesity (ICD-9-CM code 278.01). The frequency counts in Figure 4B-2 are based on the principal procedure. The tabulated data use all six listed procedures.

**TABLE 4B-1
NUMBER OF PROCEDURES BY CATEGORY AND AGE GROUP, ARIZONA, 2011**

Procedures by category	Total	Age group					Un-known
		Children <15 years	Adolescents 15-19 years	Young adults 20-44 years	Middle-aged adults 45-64 years	Elderly 65+ years	
All procedures	1,080,652	76,706	30,749	295,821	300,579	376,788	9
Operations on the nervous system	25,079	3,311	1,221	7,702	6,300	6,545	0
Spinal tap	7,869	2,327	252	1,930	1,902	1,458	0
Operations on the endocrine system	2,296	46	32	596	967	655	0
Operations on the eye	942	102	60	338	239	203	0
Operations on the ear	500	182	19	111	98	90	0
Operations on the nose, mouth, and pharynx	4,518	894	224	1,281	1,153	966	0
Operations on the respiratory system	23,180	940	378	3,066	7,291	11,505	0
Bronchoscopy with or without biopsy	1,206	27	14	171	451	543	0
Operations on the cardiovascular system	90,602	3,832	726	10,056	30,612	45,376	0
Removal of coronary artery obstruction	10,299	1	0	424	4,246	5,628	0
Coronary artery bypass graft	4,105	1	1	74	1,406	2,623	0
Cardiac catheterization	24,289	200	18	1,539	9,890	12,642	0
Insertion, replacement, removal, of pacemaker leads	4,495	36	18	164	759	3,518	0
Hemodialysis	17,180	22	81	2,608	6,739	7,730	0
Operations on the hemic and lymphatic system	7,409	295	105	994	2,855	3,160	0
Operations on the digestive system	83,659	4,040	2,246	20,794	27,560	29,017	2
Gastric band	298	0	1	129	119	49	0
Endoscopy of small intestine with or without biopsy	22,370	456	330	4,440	7,539	9,605	0
Endoscopy of large intestine with or without biopsy	10,239	196	150	1,860	3,251	4,781	1
Partial excision of large intestine	3,229	44	18	362	1,128	1,677	0
Appendectomy, excluding incidental	7,846	1,893	941	2,932	1,411	669	0
Cholecystectomy	12,604	109	514	4,988	3,818	3,175	0
Lysis of peritoneal adhesions	7,578	111	72	2,239	2,668	2,488	0
Operations on the urinary system	17,209	558	226	3,675	5,805	6,945	0
Cystoscopy with or without biopsy	4,195	196	43	1,028	1,399	1,529	0
Operations on the male genital organs	11,321	7,918	23	260	1,317	1,803	0
Prostatectomy	2,615	0	0	11	1,058	1,546	0

TABLE 4B-1 (continued)
NUMBER OF PROCEDURES BY CATEGORY AND AGE GROUP, ARIZONA, 2011

Procedures by category	Total	Age group					Un-known
		Children <15 years	Adolescents 15-19 years	Young adults 20-44 years	Middle-aged adults 45-64 years	Elderly 65+ years	
Operations on the female genital organs	18,295	211	269	11,248	4,622	1,945	0
Oophorectomy and salpingo-oophorectomy	5,105	23	38	1,686	2,481	877	0
Bilateral destruction/occlusion of fallopian tubes	4,448	0	2	4,434	12	0	0
Hysterectomy	7,747	1	3	3,502	3,389	852	0
Obstetrical procedures	82,052	95	8,081	73,780	96	0	0
Episiotomy with or w/o forceps or vacuum extraction	6,929	16	994	5,915	4	0	0
Artificial rupture of membranes	21,336	28	2,235	19,058	15	0	0
Cesarean section	23,690	10	1,483	22,141	56	0	0
Repair of current obstetric laceration	27,897	50	3,507	24,320	20	0	0
Operations on the musculoskeletal system	65,395	1,955	1,184	9,738	22,746	29,771	1
Partial excision of bone	7,695	200	182	1,473	3,367	2,473	0
Reduction of fracture	12,096	828	392	2,503	3,014	5,358	1
Open reduction of fracture with internal fixation	8,771	310	312	2,104	2,457	3,588	0
Excision or destruction of intervertebral disc	5,691	10	22	1,383	2,661	1,615	0
Total hip replacement	5,787	3	8	255	2,253	3,268	0
Total knee replacement	13,469	4	2	254	5,246	7,963	0
Operations on the integumentary system	26,429	1,770	770	7,224	9,198	7,467	0
Debridement of wound, infection, or burn	6,033	288	136	1,578	2,341	1,690	0
Miscellaneous diagnostic and therapeutic procedures	191,127	31,305	3,436	33,246	50,661	72,478	1
Computerized axial tomography	4,327	90	40	717	1,246	2,234	0
Arterio- & angiocardiology using contrast material	31,437	192	76	2,348	12,146	16,675	0
Diagnostic ultrasound	9,693	363	100	1,288	3,049	4,893	0
Respiratory therapy	27,873	3,376	406	4,063	8,539	11,489	0
Insertion of endotracheal tube	15,874	2,283	227	2,580	4,813	5,971	0
Injection/infusion of cancer chemotherapy substance	3,664	840	241	630	1,017	936	0

**TABLE 4B-2
NUMBER OF PROCEURES BY CATEGORY AND GENDER, ARIZONA, 2011**

Procedures by category	Total	Patient's gender		
		Female	Male	Unknown
All procedures	1,080,652	610,360	470,269	23
Operations on the nervous system	25,079	14,091	10,988	0
Spinal tap	7,869	4,006	3,863	0
Operations on the endocrine system	2,296	1,603	693	0
Operations on the eye	942	337	605	0
Operations on the ear	500	180	320	0
Operations on the nose, mouth, and pharynx	4,518	1,821	2,697	0
Operations on the respiratory system	23,180	10,540	12,640	0
Bronchoscopy with or without biopsy	1,206	565	641	0
Operations on the cardiovascular system	90,602	40,543	50,058	1
Removal of coronary artery obstruction	10,299	3,397	6,902	0
Coronary artery bypass graft	4,105	1,071	3,034	0
Cardiac catheterization	24,289	9,370	14,919	0
Insertion, replacement, removal, of pacemaker leads	4,495	2,073	2,422	0
Hemodialysis	17,180	7,918	9,262	0
Operations on the hemic and lymphatic system	7,409	3,763	3,646	0
Operations on the digestive system	83,659	46,490	37,169	0
Gastric band	298	199	99	0
Endoscopy of small intestine with or without biopsy	22,370	11,935	10,435	0
Endoscopy of large intestine with or without biopsy	10,239	5,942	4,297	0
Partial excision of large intestine	3,229	1,709	1,520	0
Appendectomy, excluding incidental	7,846	3,716	4,130	0
Cholecystectomy	12,604	8,198	4,406	0
Lysis of peritoneal adhesions	7,578	5,424	2,154	0
Operations on the urinary system	17,209	9,063	8,146	0
Cystoscopy with or without biopsy	4,195	2,516	1,679	0
Operations on the male genital organs	11,321	0	11,320	1
Prostatectomy	2,615	0	2,615	0

**TABLE 4B-2 (continued)
NUMBER OF PROCEDURES BY CATEGORY AND GENDER, ARIZONA, 2011**

Procedures by category	Total	Patient's gender		
		Female	Male	Unknown
Operations on the female genital organs	18,295	18,295	0	0
Oophorectomy and salpingo-oophorectomy	5,105	5,105	0	0
Bilateral destruction/occlusion of fallopian tubes	4,448	4,448	0	0
Hysterectomy	7,747	7,747	0	0
Obstetrical procedures	82,052	82,052	0	0
Episiotomy with or w/o forceps or vacuum extraction	6,929	6,929	0	0
Artificial rupture of membranes	21,336	21,336	0	0
Cesarean section	23,690	23,690	0	0
Repair of current obstetric laceration	27,897	27,897	0	0
Operations on the musculoskeletal system	65,395	34,063	31,332	0
Partial excision of bone	7,695	3,511	4,184	0
Reduction of fracture	12,096	6,766	5,330	0
Open reduction of fracture with internal fixation	8,771	4,832	3,939	0
Excision or destruction of intervertebral disc	5,691	2,842	2,849	0
Total hip replacement	5,787	3,334	2,453	0
Total knee replacement	13,469	8,080	5,389	0
Operations on the integumentary system	26,429	12,928	13,500	1
Debridement of wound, infection, or burn	6,033	2,453	3,580	0
Miscellaneous diagnostic and therapeutic procedures	191,127	97,527	93,582	18
Computerized axial tomography	4,327	2,304	2,023	0
Arterio- & angiocardiography using contrast material	31,437	12,725	18,712	0
Diagnostic ultrasound	9,693	4,392	5,301	0
Respiratory therapy	27,873	12,365	15,508	0
Insertion of endotracheal tube	15,874	6,999	8,872	3
Injection/infusion of cancer chemotherapy substance	3,664	1,697	1,967	0

**TABLE 4B-3
NUMBER OF PROCEDURES BY CATEGORY AND RACE/ETHNICITY, ARIZONA, 2011**

Procedures by category	Total	Race/ethnicity						Refused
		American Indian or Alaska Native	Asian or other Pacific Islander	Black or African American	Hispanic or Latino	White non-Hispanic	Other	
All procedures	1,080,652	43,245	19,082	47,416	208,565	747,890	491	13,963
Operations on the nervous system	25,079	908	476	1,114	5,680	16,475	6	420
Spinal tap	7,869	320	134	472	2,011	4,795	3	134
Operations on the endocrine system	2,296	59	54	128	373	1,634	0	48
Operations on the eye	942	108	7	43	187	587	0	10
Operations on the ear	500	45	7	21	98	323	0	6
Operations on the nose, mouth, and pharynx	4,518	282	64	255	878	2,981	2	56
Operations on the respiratory system	23,180	880	360	975	3,181	17,498	6	280
Bronchoscopy with or without biopsy	1,206	49	24	66	190	865	0	12
Operations on the cardiovascular system	90,602	3,675	1,142	4,313	12,938	67,419	20	1,095
Removal of coronary artery obstruction	10,299	199	139	330	1,292	8,179	2	158
Coronary artery bypass graft	4,105	84	63	81	485	3,335	1	56
Cardiac catheterization	24,289	638	295	1,092	3,244	18,698	3	319
Insertion, replacement, removal, of pacemaker leads	4,495	107	53	126	417	3,750	0	42
Hemodialysis	17,180	2,051	334	1,723	4,719	8,201	8	144
Operations on the hemic and lymphatic system	7,409	152	140	288	924	5,786	2	117
Operations on the digestive system	83,659	3,557	1,181	3,477	16,765	57,753	21	905
Gastric band	298	5	5	13	47	224	0	4
Endoscopy of small intestine with or without biopsy	22,370	1,048	323	1,076	3,701	15,978	5	239
Endoscopy of large intestine with or without biopsy	10,239	368	147	503	1,518	7,604	2	97
Partial excision of large intestine	3,229	85	31	94	411	2,582	1	25
Appendectomy, excluding incidental	7,846	246	125	238	2,506	4,613	5	113
Cholecystectomy	12,604	659	159	396	3,553	7,715	2	120
Lysis of peritoneal adhesions	7,578	197	121	380	1,341	5,461	1	77
Operations on the urinary system	17,209	473	233	620	2,754	12,903	2	224
Cystoscopy with or without biopsy	4,195	99	46	148	667	3,182	0	53
Operations on the male genital organs	11,321	140	398	450	1,565	8,606	3	159
Prostatectomy	2,615	25	28	93	268	2,153	0	48

**TABLE 4B-3 (continued)
NUMBER OF PROCEDURES BY CATEGORY AND RACE/ETHNICITY, ARIZONA, 2011**

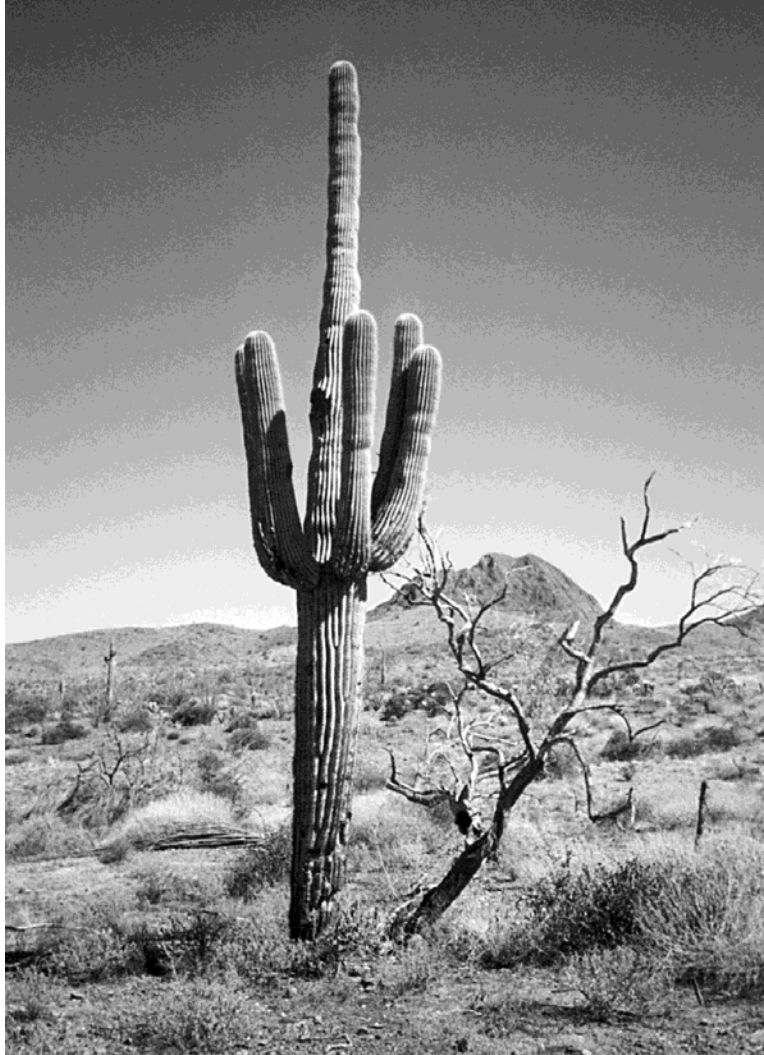
Procedures by category	Total	Race/ethnicity						Other	Refused
		American Indian or Alaska Native	Asian or Pacific Islander	Black or African American	Hispanic or Latino	White non-Hispanic			
Operations on the female genital organs	18,295	514	402	964	5,091	11,102	9	213	
Oophorectomy and salpingo-oophorectomy	5,105	101	94	250	963	3,628	2	67	
Bilateral destruction/occlusion of fallopian tubes	4,448	191	132	215	1,870	2,005	4	31	
Hysterectomy	7,747	129	137	427	1,668	5,293	2	91	
Obstetrical procedures	82,052	3,159	2,937	4,006	30,259	40,409	78	1,204	
Episiotomy with or w/o forceps or vacuum extraction	6,929	158	374	197	1,754	4,341	0	105	
Artificial rupture of membranes	21,336	850	698	1,019	7,204	11,282	20	263	
Cesarean section	23,690	855	956	1,274	8,125	12,070	23	387	
Repair of current obstetric laceration	27,897	939	1,167	1,006	9,831	14,520	30	404	
Operations on the musculoskeletal system	65,395	2,517	555	2,041	8,121	51,411	16	734	
Partial excision of bone	7,695	315	79	264	1,050	5,910	4	73	
Reduction of fracture	12,096	580	107	297	1,829	9,146	4	133	
Open reduction of fracture with internal fixation	8,771	453	86	235	1,320	6,579	3	95	
Excision or destruction of intervertebral disc	5,691	90	57	169	571	4,732	0	72	
Total hip replacement	5,787	52	32	146	279	5,212	2	64	
Total knee replacement	13,469	222	105	353	1,329	11,312	1	147	
Operations on the integumentary system	26,429	1,641	330	1,328	4,801	18,034	6	289	
Debridement of wound, infection, or burn	6,033	501	49	288	1,162	3,967	1	65	
Miscellaneous diagnostic and therapeutic procedures	191,127	8,152	3,502	8,776	36,303	131,852	99	2,443	
Computerized axial tomography	4,327	83	39	160	517	3,432	0	96	
Arterio- & angiocardiology using contrast material	31,437	877	407	1,437	4,228	24,073	3	412	
Diagnostic ultrasound	9,693	267	138	388	1,273	7,502	4	121	
Respiratory therapy	27,873	1,673	401	1,460	4,338	19,517	16	468	
Insertion of endotracheal tube	15,874	893	231	869	2,665	10,949	5	262	
Injection/infusion of cancer chemotherapy substance	3,664	91	68	175	768	2,501	6	55	

**TABLE 4B-4
NUMBER OF PROCEDURES BY CATEGORY AND EXPECTED SOURCE OF PAYMENT, ARIZONA, 2011**

Procedures by category	Total	Self	Private insurance (indemnity, HMO, PPO)	AHCCCS/Medicaid	Medicare	Other
All procedures	1,080,652	44,105	304,171	259,302	327,884	145,190
Operations on the nervous system	25,079	911	7,491	7,809	5,786	3,082
Spinal tap	7,869	397	2,206	2,957	1,528	781
Operations on the endocrine system	2,296	33	923	456	580	304
Operations on the eye	942	118	207	279	180	158
Operations on the ear	500	36	144	158	77	85
Operations on the nose, mouth, and pharynx	4,518	378	1,305	1,326	900	609
Operations on the respiratory system	23,180	839	4,848	4,037	9,802	3,654
Bronchoscopy with or without biopsy	1,206	31	262	226	517	170
Operations on the cardiovascular system	90,602	3,635	17,971	15,121	39,007	14,868
Removal of coronary artery obstruction	10,299	621	2,458	1,123	4,433	1,664
Coronary artery bypass graft	4,105	150	901	363	1,989	702
Cardiac catheterization	24,289	1,355	5,448	3,250	10,372	3,864
Insertion, replacement, removal, of pacemaker leads	4,495	118	532	275	2,724	846
Hemodialysis	17,180	261	1,547	2,349	10,824	2,199
Operations on the hemic and lymphatic system	7,409	177	2,612	1,038	2,549	1,033
Operations on the digestive system	83,659	4,643	23,709	18,913	25,489	10,905
Gastric band	298	5	188	13	48	44
Endoscopy of small intestine with or without biopsy	22,370	1,196	4,580	4,725	8,411	3,458
Endoscopy of large intestine with or without biopsy	10,239	509	2,342	1,770	3,979	1,639
Partial excision of large intestine	3,229	124	884	415	1,323	483
Appendectomy, excluding incidental	7,846	729	3,427	2,544	589	557
Cholecystectomy	12,604	1,048	3,927	3,578	2,672	1,379
Lysis of peritoneal adhesions	7,578	198	2,660	1,630	2,178	912
Operations on the urinary system	17,209	829	5,094	2,884	5,977	2,425
Cystoscopy with or without biopsy	4,195	160	1,459	758	1,253	565
Operations on the male genital organs	11,321	354	6,635	1,854	1,345	1,133
Prostatectomy	2,615	53	966	96	1,100	400

**TABLE 4B-4 (continued)
NUMBER OF PROCEDURES BY CATEGORY AND EXPECTED SOURCE OF PAYMENT, ARIZONA, 2011**

Procedures by category	Total	Self	Private insurance (indemnity, HMO, PPO)	AHCCCS/Medicaid	Medicare	Other
Operations on the female genital organs	18,295	565	8,173	6,231	1,856	1,470
Oophorectomy and salpingo-oophorectomy	5,105	153	2,521	1,131	775	525
Bilateral destruction/occlusion of fallopian tubes	4,448	83	1,639	2,428	101	197
Hysterectomy	7,747	174	4,103	1,900	852	718
Obstetrical procedures	82,052	2,496	32,421	42,200	652	4,283
Episiotomy with or w/o forceps or vacuum extraction	6,929	232	3,406	2,795	102	394
Artificial rupture of membranes	21,336	580	8,769	10,632	138	1,217
Cesarean section	23,690	596	10,503	11,113	235	1,243
Repair of current obstetric laceration	27,897	960	12,307	12,932	139	1,559
Operations on the musculoskeletal system	65,395	2,371	17,829	9,209	24,882	11,104
Partial excision of bone	7,695	220	2,522	1,324	2,336	1,293
Reduction of fracture	12,096	853	2,758	2,068	4,209	2,208
Open reduction of fracture with internal fixation	8,771	686	2,134	1,473	2,832	1,646
Excision or destruction of intervertebral disc	5,691	81	2,440	794	1,405	971
Total hip replacement	5,787	33	1,869	390	2,652	843
Total knee replacement	13,469	47	4,091	908	6,234	2,189
Operations on the integumentary system	26,429	1,954	6,551	6,659	7,491	3,774
Debridement of wound, infection, or burn	6,033	457	1,309	1,537	1,849	881
Miscellaneous diagnostic and therapeutic procedures	191,127	7,934	48,115	46,006	63,102	25,970
Computerized axial tomography	4,327	162	995	605	1,894	671
Arterio- & angiocardiology using contrast material	31,437	1,657	6,828	4,219	13,496	5,237
Diagnostic ultrasound	9,693	392	2,410	1,452	3,952	1,487
Respiratory therapy	27,873	1,311	5,082	6,776	10,386	4,318
Insertion of endotracheal tube	15,874	928	2,887	4,262	5,452	2,345
Injection/infusion of cancer chemotherapy substance	3,664	53	1,380	1,039	846	346



4C.

CHARACTERISTICS OF EMERGENCY ROOM VISITS BY DISEASE CATEGORY, DIAGNOSIS GROUP, AND AGE GROUP

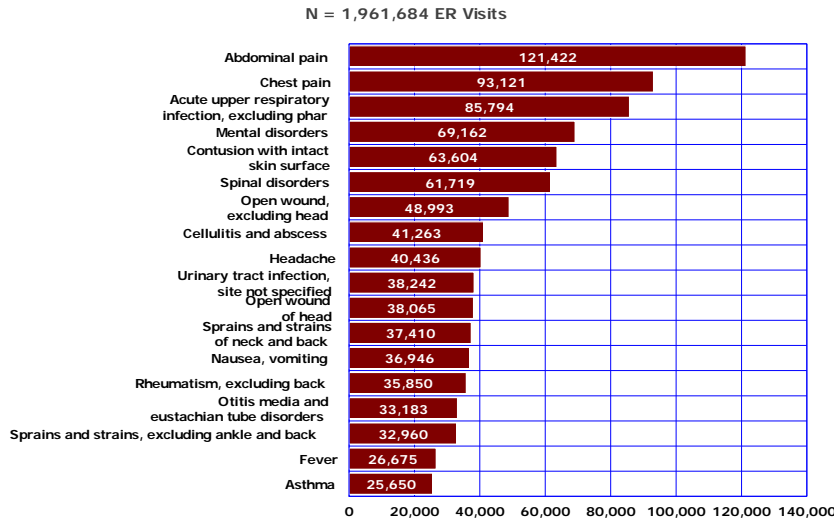
The data in this section are focused on ambulatory care visits to emergency rooms of non-Federal, short-stay hospitals. The emergency room (ER) and the inpatient hospitalization data are mutually exclusive. The ER data include only those who were not admitted as inpatients.

All emergency room visits are those of the residents of Arizona. Ambulatory care visits to hospital emergency rooms of out-of-state residents are not included in this report. Diagnostic groupings and code numbers are based on the International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM).

*Findings of the National Hospital Ambulatory Medical Care Survey, including data on trends in ER utilization, are available in bound reports of the National Center for Health Statistics and online at <http://www.cdc.gov/nchs/ahcd.htm>

4C. CHARACTERISTICS OF EMERGENCY ROOM VISITS BY DISEASE CATEGORY, DIAGNOSIS GROUP, AND AGE GROUP

Figure 4C-1
Number of Emergency Room Visits by the Leading Diagnostic Groupings, Arizona Residents, 2011



Note: Based on first-listed diagnosis. See Table 4C-2.

During 2011, more than 1.9 million visits were made by Arizona residents to hospital emergency rooms (ER), about 30.5 visits per 100 persons. The utilization rates vary by geographic region, with the Western United States having the lowest ER visit rate.

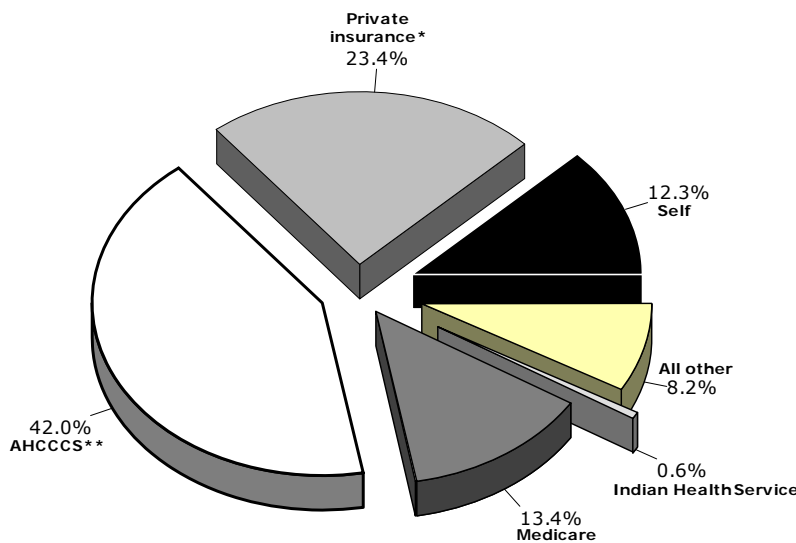
In Arizona, the number of ER visits increased by 16.7 percent from 1,680,473 in 2007.

In 2011, *abdominal pain, chest pain, acute upper respiratory infection, mental disorders, contusion with intact skin surfaces, and spinal disorders* were the leading diagnostic categories, accounting for approximately one-fourth (24.6 percent) of all visits (**Figure 4C-1, Table 4C-2**).

Both *rheumatism* (35,850 visits) and *fever* (26,675) were among the top fifteen complaints, symptoms, or reasons for a visit to the emergency room.

[*www.cdc.gov/nchs/data/nhsr/nhsr007.pdf](http://www.cdc.gov/nchs/data/nhsr/nhsr007.pdf)

Figure 4C-2
Emergency Room Visits by Payer, Arizona Residents, 2011



*Number of visits per 100 persons.
 The actual number of ER visits for each group is provided below the bars. The denominators are in Table 10C-1.

The Arizona Health Care Cost Containment System (AHCCCS, the State's Medicaid program) was the most frequently recorded expected source of payment, accounting for 42.0 percent of ER visits (**Figure 4C-3**). Private insurance was the second most frequent payer (23.4 percent of ER visits), followed by Medicare (13.4 percent) and self-pay patients (12.3 percent).

**TABLE 4C-1
NUMBER OF EMERGENCY ROOM VISITS* BY FIRST-LISTED DIAGNOSIS AND AGE GROUP, ARIZONA, 2011**

Category of first-listed diagnosis	All Ages	Age group						Unknown
		<15	15-19	20-44	45-64	65+		
Total	1,961,684	401,438	133,313	771,039	396,153	259,735	6	
Infectious and parasitic diseases	40,996	19,747	3,174	11,763	4,074	2,238	0	
Neoplasms	2,547	116	54	740	861	776	0	
Endocrine nutritional metabolic and immunity diseases	28,906	2,610	1,128	9,339	8,776	7,053	0	
Diabetes	10,229	338	268	3,358	4,018	2,247	0	
Mental disorders	69,162	2,418	6,058	36,429	19,580	4,677	0	
Psychoses	15,256	385	870	7,785	4,591	1,625	0	
Alcoholic psychoses	1,939	1	4	1,010	863	61	0	
Drug psychoses	3,535	16	220	2,159	966	174	0	
Schizophrenic disorders	2,035	9	82	1,220	672	52	0	
Manic-depressive disorders	4,203	273	405	2,177	1,194	154	0	
Neurotic disorders	53,891	2,033	5,187	28,634	14,986	3,051	0	
Anxiety states	14,666	319	1,020	8,650	3,442	1,235	0	
Depression	8,614	367	952	4,358	2,450	487	0	
Drug dependence	851	2	90	569	179	11	0	
Nondependent abuse of drugs	17,591	333	1,989	9,584	5,135	550	0	
Alcohol dependence syndrome	4,511	11	110	1,961	2,206	223	0	
Diseases of the nervous system	116,884	37,828	5,435	43,098	22,060	8,463	0	
Diseases of the circulatory system	47,703	517	553	8,648	15,555	22,429	1	
Diseases of the respiratory system	199,318	87,206	12,360	58,173	26,185	15,394	0	
Acute bronchitis and bronchiolitis	24,095	9,561	1,039	7,743	3,691	2,061	0	
Pneumonia	19,888	9,063	788	4,389	3,160	2,488	0	
Chronic bronchitis	5,747	22	11	361	2,615	2,738	0	
Asthma	25,650	10,874	1,629	8,098	3,846	1,203	0	
Diseases of the digestive system	114,835	18,990	6,103	52,555	23,270	13,917	0	
Diseases of the genitourinary system	116,969	10,450	10,617	60,077	20,777	15,048	0	
Diseases of the skin and subcutaneous tissue	70,520	15,081	5,503	30,189	13,490	6,257	0	
Diseases of the musculoskeletal system	135,266	7,063	5,862	59,727	39,899	22,715	0	
Symptoms signs and ill-defined conditions	481,389	80,536	27,535	182,889	112,173	78,252	4	
Injury and poisoning	426,772	105,119	36,894	152,418	76,883	55,458	0	
Fractures, all sites	53,974	13,880	4,189	14,876	10,819	10,210	0	
Sprains	84,728	9,551	8,653	42,256	17,734	6,534	0	
Intracranial	9,759	2,576	1,506	3,068	1,497	1,112	0	
Open wounds	87,058	27,100	6,684	29,161	13,125	10,988	0	
Superficial	20,931	6,826	1,723	6,978	3,280	2,124	0	
Contusions	63,604	14,250	5,641	22,079	11,471	10,163	0	
Foreign bodies	9,474	4,373	360	2,391	1,427	923	0	
Burns	3,124	927	248	1,291	513	145	0	
Trauma complications and unspecified injuries	38,176	13,687	3,228	10,209	5,374	5,678	0	
Poisonings	19,637	4,648	2,102	7,751	3,768	1,368	0	
Surgical and medical complications	10,753	698	327	2,771	3,244	3,713	0	

**TABLE 4C-2
NUMBER OF EMERGENCY ROOM VISITS FOR THE LEADING DIAGNOSIS GROUPS* AND AGE GROUP, ARIZONA, 2011**

Primary diagnosis group	ICD-9-CM code(s)	All Ages	Age group						Unknown
			<15	15-19	20-44	45-64	65+		
Total, all visits		1,961,684	401,438	133,313	771,039	396,153	259,735	6	
Abdominal pain	789.0	121,422	13,294	10,524	62,756	24,416	10,432	0	
Chest pain	786.5	93,121	2,229	3,401	34,431	34,325	18,735	0	
Acute upper respiratory infection, excluding pharyngitis	460-461, 463-466	85,794	50,124	4,183	20,639	7,305	3,543	0	
Mental disorders	290-319	69,162	2,418	6,058	36,429	19,580	4,677	0	
Contusion with intact skin surface	920-924	63,604	14,250	5,641	22,079	11,471	10,163	0	
Spinal disorders	720-724	61,719	1,575	2,360	30,759	18,284	8,741	0	
Open wound, excluding head	874-897	48,993	8,830	4,405	20,558	9,027	6,173	0	
Cellulitis and abscess	681-682	41,263	5,819	2,855	19,665	9,019	3,905	0	
Headache	784.0	40,436	2,775	2,956	21,948	9,464	3,292	1	
Urinary tract infection, site not specified	599.0	38,242	6,183	3,285	14,914	6,198	7,662	0	
Open wound of head	870-873	38,065	18,270	2,279	8,603	4,098	4,815	0	
Sprains and strains of neck and back	846, 847	37,410	1,798	2,886	21,068	8,811	2,847	0	
Nausea, vomiting	787.0	36,946	13,849	2,205	12,547	4,809	3,536	0	
Rheumatism, excluding back	725-729	35,850	2,747	1,399	14,474	10,623	6,607	0	
Otitis media and eustachian tube disorders	381-382	33,183	26,405	1,082	4,307	1,088	301	0	
Sprains and strains, excluding ankle and back	840-844, 845.1, 848	32,960	5,217	3,455	14,490	6,842	2,956	0	
Fever	780.6	26,675	22,212	615	2,030	975	843	0	
Asthma	493	25,650	10,874	1,629	8,098	3,846	1,203	0	
Chronic and unspecified bronchitis	490-491	23,415	3,708	1,053	7,588	6,239	4,827	0	
Acute pharyngitis	462.0	22,293	7,812	3,160	9,174	1,610	537	0	
Superficial injuries	910-919	20,931	6,826	1,723	6,978	3,280	2,124	0	
Pneumonia	480-486	19,888	9,063	788	4,389	3,160	2,488	0	
Migraine	346	17,020	482	960	10,738	4,359	481	0	
Gastroenteritis and colitis	558.0	16,707	5,806	1,004	6,028	2,442	1,427	0	
Heart disease, excluding ischemic	391-392.0, 393-398, 402, 404, 415-416, 420-429	13,919	307	158	2,034	3,923	7,496	1	
Unspecified viral and chlamydial infection	79.9	10,971	6,490	731	2,720	759	271	0	

*Based on first-listed diagnosis



4D.

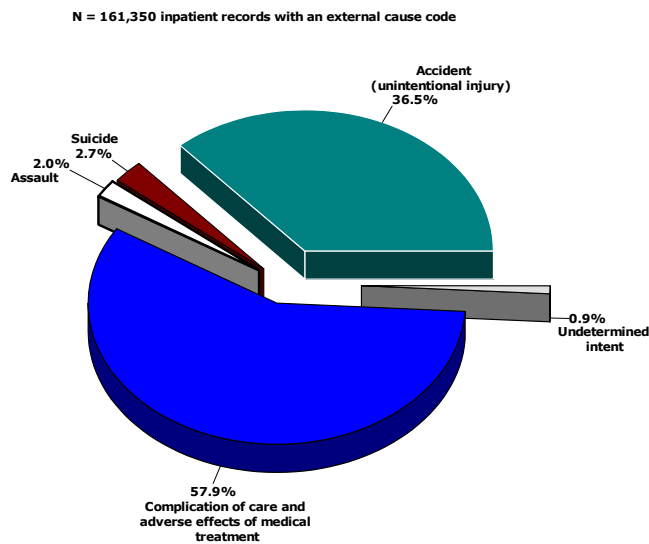
INJURY-RELATED INPATIENT DISCHARGES AND EMERGENCY ROOM VISITS BY INTENT AND MECHANISM OF INJURY

Prior to 2009, injury hospitalizations and injury-related emergency room visits were defined here through the range of ICD-9-CM codes 800-999 used as the first-listed diagnosis. In addition, the supplementary classification of external causes of injury and poisoning (ICD-9-CM codes E800–E999) is used to permit the classification of environmental events, circumstances, and conditions as the cause of injury, poisoning, and other adverse effects. The “E” code classification is used to describe both the *mechanism* of external cause of injury (e.g., motor vehicle traffic, fall, poisoning), but also the manner or *intent* of the injury (e.g., suicide, assault, accident).

In 2009, the reporting requirements for hospital were revised and the non-injury first-listed diagnoses may also have an external cause of injury code. Beginning with the 2009 edition of this report, the reader is advised that the number of suicides, accidents, etc. shown in **Table 4D-1** and **Table 4D-2** no longer reflect only those where the principal diagnosis was an injury. To continue to do so would only mean undercounting the external causes of injury. As an example, in 2009, 2010, and 2011, among the suicide attempt-related ER visits, *injury and poisoning, mental disorders, chronic disease, or infectious disease* were identified as the first-listed diagnosis.

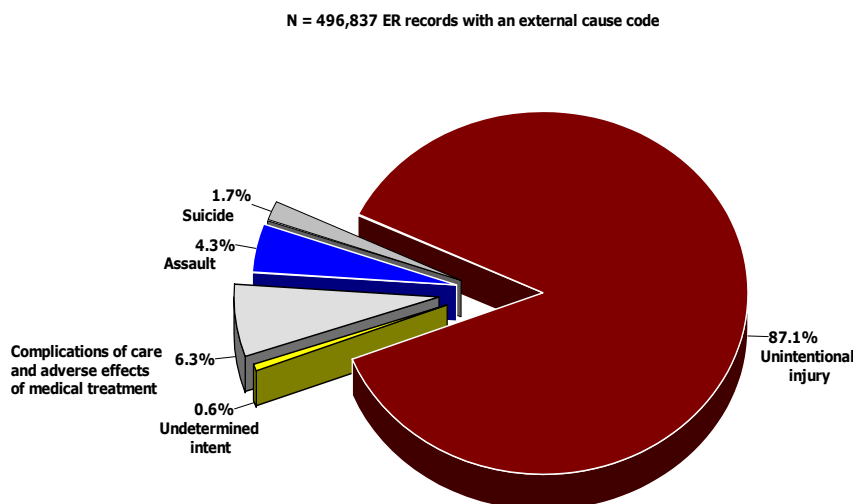
4D. INJURY-RELATED INPATIENT DISCHARGES AND EMERGENCY ROOM VISITS BY INTENT AND MECHANISM OF INJURY

Figure 4D-1
Percent Distribution of Inpatient Discharges by Intent of Injury,
Arizona Residents, 2011



In 2011, injury was indicated as the principal diagnosis on 66,544 inpatient discharge records (**Table 4A-1**). However, the E-codes for external causes of injury were provided on a substantially greater number of inpatient discharges (**Figure 4D-1, Table 4D-1**). *Complications of medical care and adverse effects of medical treatment* (including adverse drug reactions and complications from surgical and medical procedures) accounted for the absolute majority of inpatient hospitalizations by the intent of injury (57.9 percent). *Unintentional injuries in accidents* accounted for 36.5 percent of all inpatient discharges by intent of injury. *Self-inflicted injuries in suicide* resulted in 4,365 inpatient hospitalizations (2.7 percent). *Assault* accounted for 3,270 inpatient hospitalizations (2.0 percent of all hospital discharges with known intent of injury).

Figure 4D-2
Percent Distribution of Emergency Room Visits by Intent of Injury,
Arizona Residents, 2011



In 2011, there were 496,837 emergency room visits with known intent of injury among Arizona residents, 3 times as many as inpatient discharges. *Unintentional injuries or accidents* accounted for nine out of ten (431,839 or 87.1 percent) of all injury-related emergency room visits (**Figure 4D-3, Table 4D-2**). The external cause of injury was classified as *assault* for 21,080 emergency room visits: these were the injuries purposely inflicted by another person. *Complications of care and adverse effects of medical treatment* accounted for a greater number of emergency room visits than *self-inflicted injuries in suicide* (6.3 percent vs. 1.7 percent, respectively, **Figure 4D-3, Table 4D-2**).

4D. INJURY-RELATED INPATIENT DISCHARGES AND EMERGENCY ROOM VISITS BY INTENT AND MECHANISM OF INJURY

Beginning in 2008, there was a substantial increase in the number of suicide-related inpatient discharges and emergency room visits (Figure 4D-7 and Figure 4D-8). It was only partly due to the change in the reporting requirements for hospitals. In 2011, *injury or poisoning* was the principal diagnosis on 3,524 inpatient discharge records, which also included the E codes for suicide (E950-E959). *Mental disorders* were identified as the principal diagnosis on the additional 610 suicide-related records. For the additional 231 inpatient discharges mentioning suicide attempt, the principal diagnosis was classified as either *chronic* or *infectious disease*.

From 2007 to 2011 there was a 25.6 percent increase in suicide-related inpatient discharges where the principal diagnosis was an injury.

Figure 4D-3
Suicide-related Inpatient Discharges by Year,
Arizona Residents, 2004 - 2011

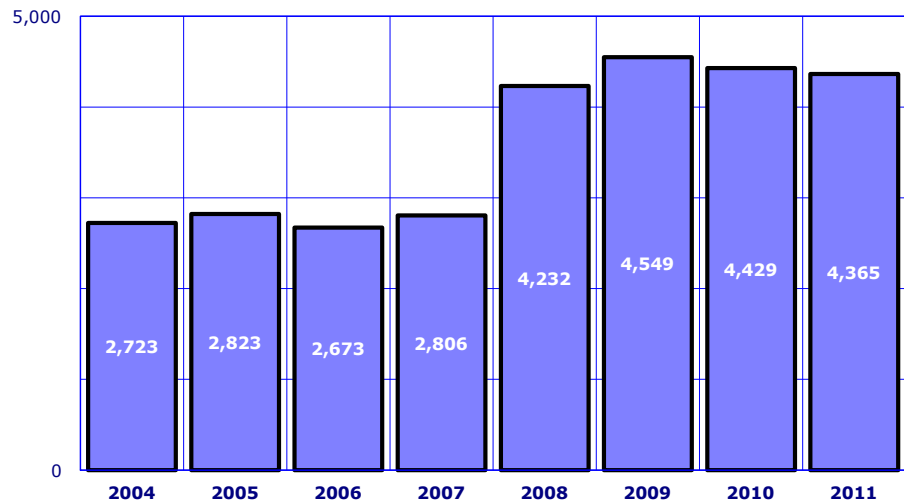
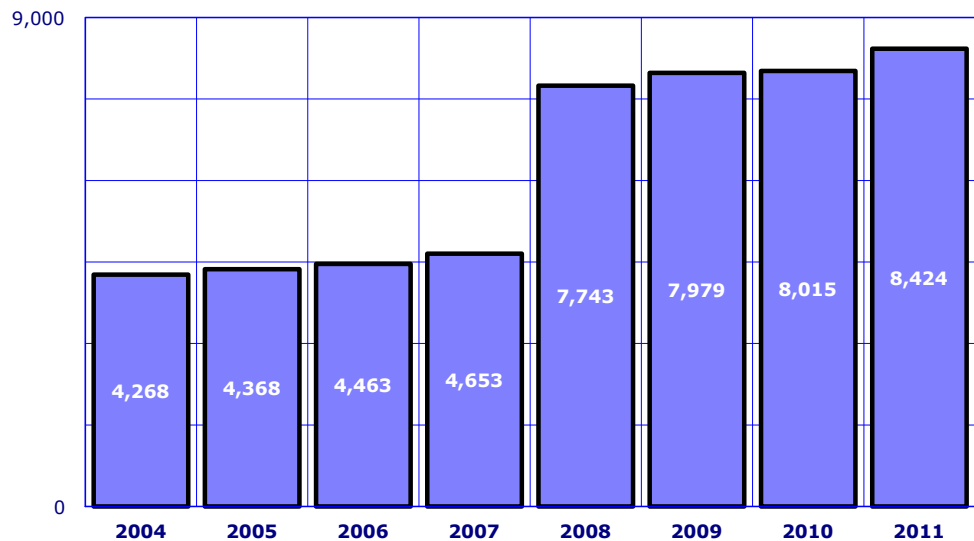


Figure 4D-4
Suicide-related Emergency Room Visits by Year,
Arizona Residents, 2004 - 2011

Injury or poisoning was the principal diagnosis on 6,317 ER discharge records, which also included the E codes for suicide (E950-E959). *Mental disorders* were identified as the principal diagnosis on the additional 1,365 suicide-related records. For the additional 742 ER discharges mentioning suicide attempt, the principal diagnosis was classified as either *chronic* or *infectious disease*.

From 2007 to 2010 there was a 35.8 percent increase in suicide-related emergency room visits where the principal diagnosis was an injury.



**TABLE 4D-1
INPATIENT DISCHARGES BY INTENT AND MECHANISM FOR SELECTED EXTERNAL CAUSES BY GENDER, AGE GROUP, AND
RACE/ETHNICITY, ARIZONA, 2011**

	Total*	Gender		Age group						Race/ethnicity							
		Female	Male	Unknown	Children < 15 years	Adolescents 15-19 years	Young adults 20-44 years	Middle-aged adults 45-64 years	Elderly 65+ years	Unknown	American Indian or Alaska	Asian or Pacific Islander	Black or African American	Hispanic or Latino	White non-Hispanic	Other	Refused
UNINTENTIONAL INJURY OR ACCIDENT¹	58,863	29,453	29,407	3	3,674	1,802	11,827	14,765	26,794	1	2,737	657	1,871	8,250	44,575	129	644
Fall	27,778	16,616	11,162	0	1,103	277	2,374	5,498	18,526	0	895	275	543	2,954	22,756	99	256
Motor vehicle accident	6,190	2,602	3,588	0	352	552	2,699	1,619	967	1	489	100	287	1,176	3,995	18	125
Accidental poisoning by drugs, medicinal substances gases and vapors	4,200	2,179	2,021	0	264	157	1,327	1,568	884	0	192	39	228	620	3,078	1	42
Natural and environmental factors	2,591	1,185	1,406	0	343	87	724	857	580	0	148	21	93	452	1,847	2	28
Exposure to excessive natural heat	427	103	324	0	2	9	113	164	139	0	19	5	35	107	258	0	3
Fire and flames	535	170	365	0	95	26	178	137	99	0	54	21	36	118	296	0	10
Machinery	254	18	235	1	7	6	110	94	37	0	3	6	3	95	144	0	3
SUICIDE²	4,365	2,389	1,976	0	104	428	2,410	1,214	209	0	276	46	175	685	3,121	1	61
ASSAULT³	3,270	627	2,643	0	110	304	2,012	743	101	0	759	28	317	753	1,348	2	63
INJURIES OF UNDETERMINED INTENT⁴	1,389	665	724	0	84	50	480	456	319	0	79	4	78	226	987	1	14
COMPLICATIONS OF CARE AND ADVERSE EFFECTS OF MEDICAL TREATMENT⁵	93,337	48,966	44,371	0	2,195	901	13,500	30,961	45,780	0	2,989	1,179	4,370	12,642	71,217	29	911
Misadventures to patients	1,874	1,158	716	0	51	14	338	677	794	0	54	26	81	298	1,402	0	13
Surgical and medical procedures as the cause of adverse reaction	46,806	22,927	23,879	0	1,537	549	7,331	16,332	21,057	0	1,877	619	2,191	6,734	34,868	18	499
Drugs causing adverse effects	44,654	24,880	19,774	0	607	338	5,831	13,949	23,929	0	1,058	534	2,098	5,610	34,944	11	399

¹First-listed external cause codes E800-E869, E880-E929.

²First-listed external cause codes E950-E959.

³First-listed external cause codes E960-E969.

⁴First-listed external cause codes E890-E989.

⁵First-listed external cause codes E870-E879, E930-E949.

*The total may include records with unknown gender and/or age group.

Note: External causes of injury and poisoning (E-codes) may be reported whether or not the principal diagnosis was an injury.

**TABLE 4D-2
EMERGENCY ROOM VISITS BY INTENT AND MECHANISM FOR SELECTED EXTERNAL CAUSES BY GENDER, AGE GROUP, AND
RACE/ETHNICITY, ARIZONA, 2011**

	Total*	Gender			Age group							Race/ethnicity						
		Female	Male	Unknown	Children <15 years	Adolescents 15-19 years	Young adults 20-44 years	Middle-aged adults 45-64 years	Elderly 65+ years	Unknown	American Indian or Alaska	Asian or Pacific Islander	Black or African American	Hispanic or Latino	White non-Hispanic	Other	Refused	
UNINTENTIONAL INJURY OR ACCIDENT¹	431,839	210,705	221,125	9	108,110	35,642	150,365	79,068	58,654	0	16,230	5,309	24,252	107,177	273,422	109	5,340	
Fall	140,456	77,098	63,357	1	41,324	6,545	30,509	26,334	35,744	0	5,259	1,431	5,907	31,837	94,436	32	1,554	
Motor vehicle accident	47,534	26,135	21,395	4	4,512	5,834	24,119	9,893	3,176	0	1,709	1,024	3,938	12,174	27,847	12	830	
Struck against or struck accidentally by objects or persons	50,614	19,358	31,255	1	19,070	7,087	16,163	5,509	2,785	0	1,671	580	3,274	13,828	30,580	13	668	
Overexertion	41,062	20,163	20,899	0	5,391	4,206	20,311	8,117	3,037	0	1,566	429	2,757	9,736	26,115	6	453	
Cutting or piercing instruments or objects	29,657	10,958	18,699	0	5,427	2,665	13,486	5,614	2,465	0	1,013	353	1,439	7,703	18,778	8	363	
Natural and environmental factors	25,887	13,305	12,582	0	8,263	1,850	8,719	4,915	2,140	0	1,092	355	1,413	7,420	15,301	9	297	
Exposure to excessive natural heat	1,858	608	1,250	0	137	148	879	489	205	0	66	11	116	504	1,143	1	17	
Accidental poisoning by drugs, medicinal substances, biologicals, gases and vapors	7,809	4,063	3,745	1	2,248	657	2,647	1,524	733	0	270	80	416	1,847	5,083	5	108	
Fire and flames	3,771	1,762	2,009	0	984	286	1,624	641	236	0	178	78	259	1,214	1,984	0	58	
Machinery	1,490	214	1,276	0	70	71	663	466	220	0	26	15	42	431	964	0	12	
Pedal cycle, nontraffic and other	7,634	1,917	5,717	0	2,829	813	2,328	1,359	305	0	235	69	285	1,632	5,329	2	82	
Motor vehicle, nontraffic	1,679	524	1,155	0	275	248	833	248	75	0	57	11	45	332	1,219	0	15	
Foreign body accidentally entering eye or other orifice	10,549	4,294	6,255	0	4,700	431	2,791	1,608	1,019	0	341	157	565	3,078	6,258	4	146	
Suffocation	205	99	106	0	92	2	24	41	46	0	14	4	11	46	126	1	3	
Firearm missile	769	103	666	0	190	141	334	81	23	0	28	3	51	250	427	0	10	
Drowning/submersion	264	112	152	0	184	18	37	18	7	0	7	4	16	84	149	1	3	
SUICIDE²	8,424	4,860	3,564	0	457	1,564	4,757	1,511	135	0	410	88	443	1,647	5,747	2	87	
ASSAULT³	21,080	8,054	13,026	0	1,064	2,820	13,546	3,369	281	0	2,619	203	1,989	5,670	10,320	5	274	
INJURIES OF UNDETERMINED INTENT⁴	3,034	1,371	1,663	0	256	369	1,543	703	163	0	251	26	162	565	2,002	1	27	
COMPLICATIONS OF CARE AND ADVERSE EFFECTS OF MEDICAL TREATMENT⁵	31,118	17,522	13,596	0	2,878	1,341	10,004	8,375	8,520	0	841	376	1,786	6,466	21,326	4	319	
Misadventures to patients	145	81	64	0	13	4	46	45	37	0	1	0	8	70	63	0	3	
Surgical and medical procedures as the cause of adverse reaction	13,828	6,684	7,144	0	985	441	3,993	3,999	4,410	0	431	166	744	2,652	9,726	0	109	
Drugs causing adverse effects	17,145	10,757	6,388	0	1,880	896	5,965	4,331	4,073	0	409	210	1,034	3,744	11,537	4	207	

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