

CHAPTER 4

HOSPITAL INPATIENT DISCHARGES AND EMERGENCY ROOM VISITS:

2012 STATUS

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

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

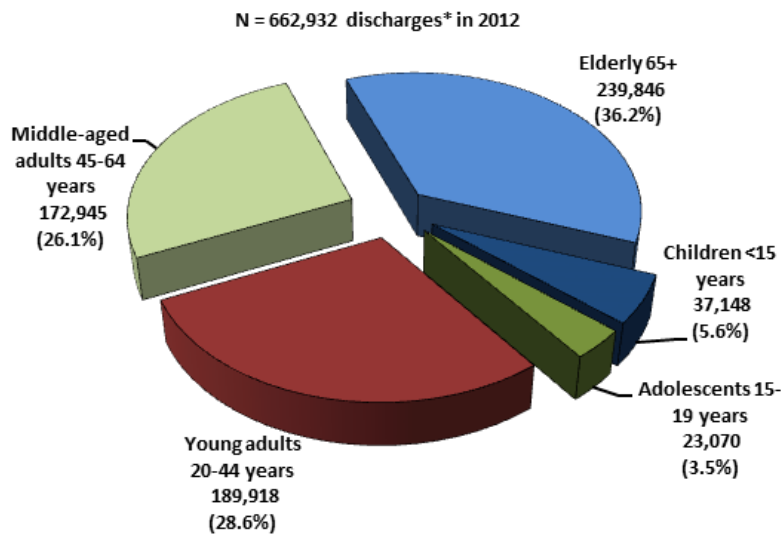
An inpatient discharge occurs when a person who was admitted to a hospital leaves that hospital. A person who has been hospitalized more than once in a given calendar year will be counted multiple times as a discharge; thus, the numbers in this report are for discharges, not persons. Federal, military, 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^a by Age Group, Arizona Residents, 2012



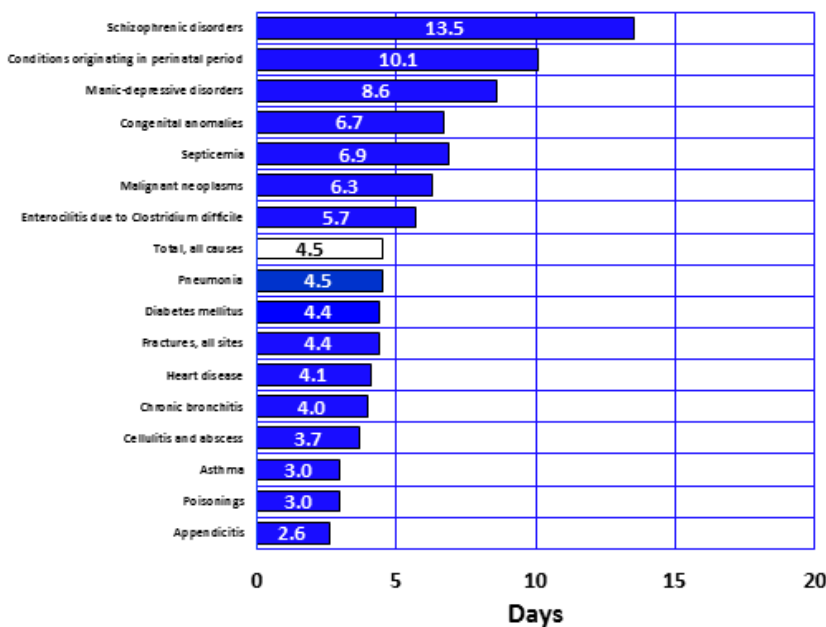
Note: ^aExcluding newborn infants.

In 2012, there were 662,932 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 36.2 percent of hospital discharges (Figure 4A-1), followed by young adults (20-44 years old) who comprised 28.6 percent of discharges, and middle-aged adults 45-64 year olds (26.1 percent of all inpatient discharges)

The discharge rate for all ages was 1,020.1 per 10,000 resident population, 4.9 percent lower than the 2011 rate. The discharge rate of 1180.9 for females was 37.7 percent greater than the rate of 857.6 for males.

Diseases of the circulatory system were the most common diagnoses (13.6 percent of all discharges), followed by digestive system diagnoses (10.6 percent), and injury and poisoning diagnoses (9.7 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, 2012



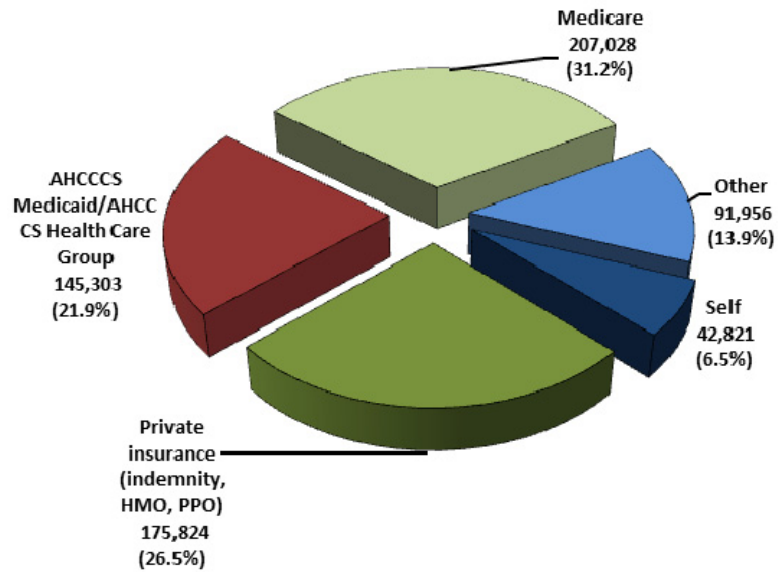
Based on the data from the National Hospital Discharge Survey, the longest continuously running nationally representative survey of hospital utilization, the length of stay for inpatients has changed dramatically from 1970 through 2010. In 1970, the average length of stay was 7.8 days, with one-third of patients hospitalized for 8 days or more. In 2010, the average length of stay nationally was 4.8 days.

In 2012, the average length of hospital stay for Arizona inpatients was 4.5 days (Figure 4A-2, Table 4A-5). The percent of patients hospitalized for 3 days or less was 60.7 percent, with 11.2 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, 6.3 days for cancer, and 13.5 days for schizophrenic disorders.

Figure 4A-3
Hospital Inpatient Discharges by Payer, Arizona Residents, 2012

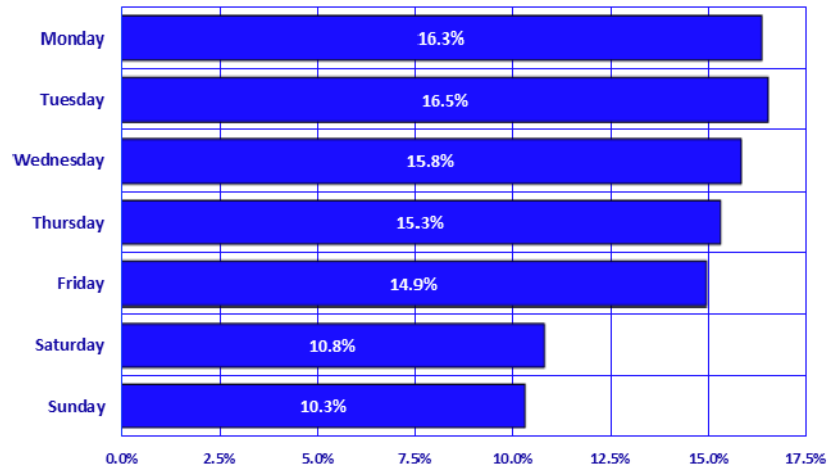
Medicare paid for 69.8 percent of inpatient discharges of persons aged 65 years or older (**Table 4A-4**) and 31.2 percent of all discharges (**Figure 4A-3**). Private insurance was the second most frequently recorded expected source of payment, accounting for 26.5 percent of inpatient discharges. The Arizona Health Care Cost Containment System (AHCCCS; the State's Medicaid Program) accounted for 21.9 percent of hospital inpatient discharges.



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

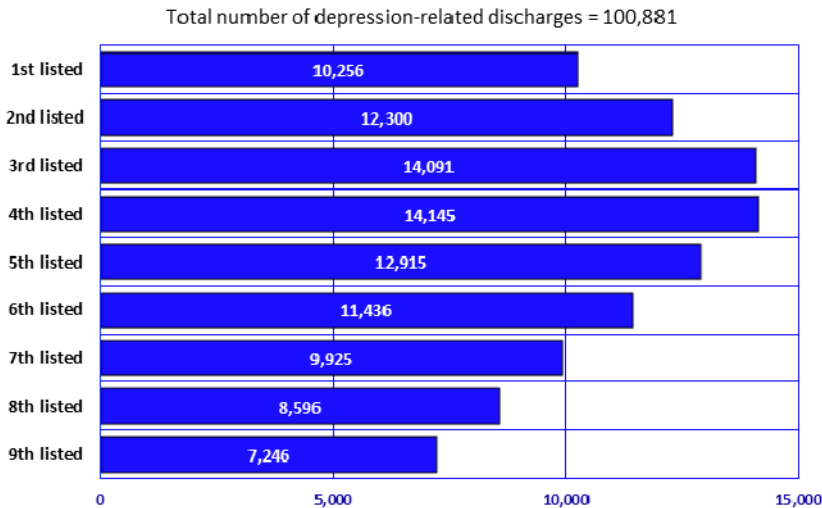
Figure 4A-4
Percent of Hospital Inpatient Admissions by Day of the Week, Arizona Residents, 2012

The rhythm of hospital births by day of the week (see **Figure 1B-14**) reveals that the daily average of resident live births in 2012 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^a Inpatient Discharges and Emergency Room Visits of Arizona Residents, 2012



Note: ^a ICD-9-CM diagnostic codes 300.4 and 311.

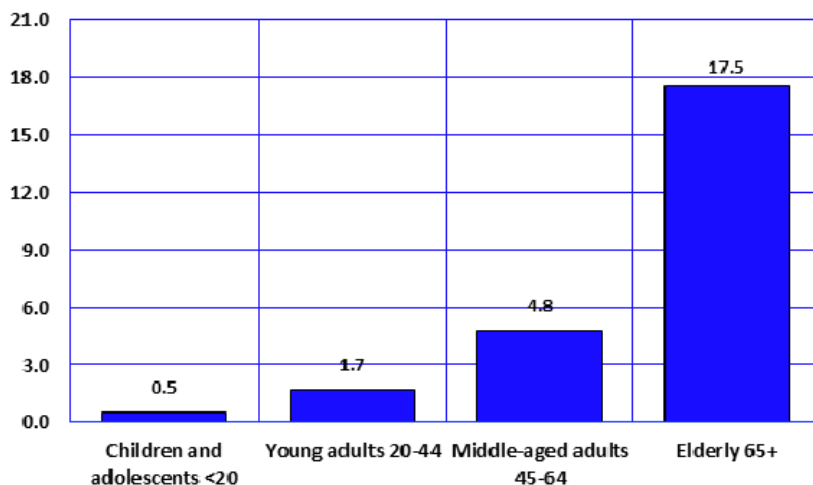
In 2012, the ICD-9-CM diagnostic codes 300.4 and 311 for depression were used on 2,619 inpatient discharge and 7,637 emergency room records as the first-listed diagnosis (for a total of 10,256 hospital encounters; **Figure 4A-5, Table 4A-1, Table 7C-1**).

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 100,881 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, 2012



In 2012, 2,870 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 (17.5/10,000) was 3.7 times greater than the rate of middle-aged adults (**Figure 4A-6**).

The disparity in enterocolitis-related hospitalization rates was 1.9 times as high for females (5.8 inpatient discharges per 10,000) as for males (3.1/10,000).

In 2012, 195 Arizonans died from enterocolitis due to *Clostridium difficile* (**Table 2B-6**). Elderly 65 years or older accounted for 88.2 percent of these deaths (**Table 2C-27**).

**TABLE 4A-1
NUMBER OF DISCHARGES^a BY FIRST-LISTED DIAGNOSIS AND AGE GROUP, ARIZONA, 2012**

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	662,932	37,148	23,070	189,918	172,945	239,846	5
Infectious and parasitic diseases	35,352	1,579	548	6,385	11,046	15,794	0
Septicemia	23,705	190	228	3,835	7,412	12,040	0
Enterocolitis due to <i>Clostridium difficile</i>	2,870	67	27	363	763	1,650	0
Neoplasms	24,919	428	203	3,372	9,533	11,383	0
Malignant neoplasms	19,351	314	131	1,824	7,296	9,786	0
Large intestine	2,395	0	0	139	816	1,440	0
Prostate	1,454	0	0	12	759	683	0
Trachea bronchus and lung	2,290†	11	*	62	690	1,521	0
Breast	1,114	0	0	173	500	441	0
Benign neoplasms	4,440	74	52	1,395	1,886	1,033	0
Endocrine nutritional metabolic and immunity diseases	24,349	1,600	590	5,978	8,606	7,575	0
Diabetes mellitus	11,274	466	384	3,408	4,404	2,612	0
Volume depletion	72	0	0	9	21	42	0
Morbid obesity	1,857	0	9	843	810	195	0
Diseases of the blood and blood forming organs	7,065	739	193	1,415	1,778	2,940	0
Mental disorders	41,410†	2,035	4,607	18,613	12,586	3,566	*
Psychoses	33,710†	1,757	3,730	15,051	10,271	2,903	*
Alcoholic psychoses	3,592	0	22	1,422	1,832	316	0
Drug psychoses	2,790†	*	390	1,555	618	219	0
Schizophrenic disorders	5,136	20	216	2,857	1,851	192	0
Manic-depressive disorders	19,260†	1,653	2,838	8,153	5,348	1,269	*
Neurotic disorders	7,691	278	876	3,561	2,314	662	0
Anxiety states	606	9	44	247	180	126	0
Depression	2,619	133	365	1,173	749	199	0
Drug dependence	819	6	186	459	151	17	0
Nondependent abuse of drugs	577	7	63	306	150	51	0
Alcohol dependence syndrome	1,260†	*	9	501	630	120	0
Diseases of the nervous system	15,713	1,764	633	3,814	4,522	4,980	0
Diseases of the circulatory system	90,000	372	219	6,084	26,293	57,032	0
Heart disease	57,351	177	119	3,413	16,735	36,907	0
Acute myocardial infarction	10,270†	*	*	502	3,729	6,039	0
Coronary atherosclerosis	8,410	0	0	249	3,092	5,069	0

TABLE 4A-1 (continued)
NUMBER OF DISCHARGES^a BY FIRST-LISTED DIAGNOSIS AND AGE GROUP, ARIZONA, 2012

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	880†	*	0	72	341	465	0
Cardiac dysrhythmias	15,418	76	45	836	3,917	10,544	0
Cardiac arrest	181	7	0	12	67	95	0
Congestive heart failure	2,190†	26	*	122	495	1,548	0
Cerebrovascular disease	17,013	61	29	814	4,517	11,592	0
Diseases of the respiratory system	57,581	10,050	796	5,644	14,657	26,434	0
Acute bronchitis and bronchiolitis	3,972	2,857	10	193	318	594	0
Pneumonia	17,546	2,380	192	1,674	4,232	9,068	0
Chronic bronchitis	9,370†	*	0	140	3,114	6,107	0
Asthma	7,267	2,636	204	1,285	1,820	1,322	0
Diseases of the digestive system	70,431	3,625	1,863	17,543	22,774	24,626	0
Appendicitis	6,092	1,420	719	2,211	1,183	559	0
Noninfectious enteritis and colitis	6,111	402	157	1,583	1,671	2,298	0
Diverticula of intestine	5,920†	*	0	806	2,161	2,956	0
Cholelithiasis	8,673	66	297	3,416	2,512	2,382	0
Diseases of the genitourinary system	33,830†	1,757	611	7,679	9,391	14,390	*
Calculus of kidney and ureter	4,095	41	83	1,425	1,557	989	0
Diseases of the skin and subcutaneous tissue	16,230†	1,388	365	4,624	5,361	4,492	*
Cellulitis and abscess	14,160†	1,170	296	4,160	4,726	3,806	*
Diseases of the musculoskeletal system	41,653	596	398	4,399	15,221	21,039	0
Osteoarthritis and allied disorders	20,150†	*	*	428	7,281	12,438	0
Invertebral disc disorders	4,730†	*	19	1,281	1,981	1,447	0
Congenital anomalies	2,650	1,623	148	337	335	207	0
Conditions originating in perinatal period	3,130†	3,125	*	*	0	*	0
Symptoms signs and ill-defined conditions	25,180†	2,116	538	4,666	8,229	9,626	*
Injury and poisoning	64,296	3,369	2,244	15,094	18,507	25,082	0
Fractures, all sites	21,547	1,077	737	4,134	4,606	10,993	0
Fracture of neck of femur	6,073	22	8	116	709	5,218	0
Poisonings	7,639	441	526	3,217	2,552	903	0

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; ^a Excluding newborn infants.

**TABLE 4A-2
NUMBER OF DISCHARGES* BY FIRST-LISTED DIAGNOSIS AND GENDER, ARIZONA, 2012**

Category of first-listed diagnosis	Total	Patient's gender		
		Female	Male	Unknown
All categories	662,932	385,642	277,280	10
Infectious and parasitic diseases	35,352	18,273	17,079	0
Septicemia	23,705	12,124	11,581	0
Enterocolitis due to <i>Clostridium difficile</i>	2,870	1,878	992	0
Neoplasms	24,919	13,583	11,336	0
Malignant neoplasms	19,351	9,555	9,796	0
Large intestine	2,395	1,109	1,286	0
Prostate	1,454	0	1,454	0
Trachea bronchus and lung	2,289	1,199	1,090	0
Breast	1,114	1,103	11	0
Benign neoplasms	4,440	3,477	963	0
Endocrine nutritional metabolic and immunity diseases	24,349	13,019	11,330	0
Diabetes mellitus	11,274	4,923	6,351	0
Volume depletion	72	38	34	0
Morbid obesity	1,857	1,432	425	0
Diseases of the blood and blood forming organs	7,065	4,034	3,031	0
Mental disorders	41,410†	20,216	21,187	*
Psychoses	33,710†	16,453	17,256	*
Alcoholic psychoses	3,592	1,097	2,495	0
Drug psychoses	2,785	1,164	1,621	0
Schizophrenic disorders	5,140†	1,941	3,192	*
Manic-depressive disorders	19,262	10,956	8,306	0
Neurotic disorders	7,690†	3,762	3,928	*
Anxiety states	606	363	243	0
Depression	2,619	1,401	1,218	0
Drug dependence	819	322	497	0
Nondependent abuse of drugs	577	205	372	0
Alcohol dependence syndrome	1,261	423	838	0
Diseases of the nervous system	15,713	8,769	6,944	0
Diseases of the circulatory system	90,000	40,180	49,820	0
Heart disease	57,351	24,047	33,304	0
Acute myocardial infarction	10,273	3,657	6,616	0
Coronary atherosclerosis	8,410	2,665	5,745	0

**TABLE 4A-2 (continued)
NUMBER OF DISCHARGES* BY FIRST-LISTED DIAGNOSIS AND GENDER, ARIZONA, 2012**

Category of first-listed diagnosis	Total	Patient's gender		
		Female	Male	Unknown
Other ischemic heart disease	879	321	558	0
Cardiac dysrhythmias	15,418	7,290	8,128	0
Cardiac arrest	181	81	100	0
Congestive heart failure	2,192	974	1,218	0
Cerebrovascular disease	17,013	8,639	8,374	0
Diseases of the respiratory system	57,581	29,680	27,901	0
Acute bronchitis and bronchiolitis	3,972	1,930	2,042	0
Pneumonia	17,546	9,073	8,473	0
Chronic bronchitis	9,366	5,154	4,212	0
Asthma	7,267	4,202	3,065	0
Diseases of the digestive system	70,431	38,217	32,214	0
Appendicitis	6,092	2,708	3,384	0
Noninfectious enteritis and colitis	6,111	3,879	2,232	0
Diverticula of intestine	5,924	3,318	2,606	0
Cholelithiasis	8,673	5,668	3,005	0
Diseases of the genitourinary system	33,829	20,775	13,054	0
Calculus of kidney and ureter	4,095	1,943	2,152	0
Diseases of the skin and subcutaneous tissue	16,231	7,547	8,684	0
Cellulitis and abscess	14,159	6,550	7,609	0
Diseases of the musculoskeletal system	41,653	22,638	19,015	0
Osteoarthritis and allied disorders	20,153	11,724	8,429	0
Intervertebral disc disorders	4,729	2,289	2,440	0
Congenital anomalies	2,650	1,291	1,359	0
Conditions originating in perinatal period	3,130†	1,336	1,792	*
Symptoms signs and ill-defined conditions	25,176	13,749	11,427	0
Injury and poisoning	64,300†	31,696	32,598	*
Fractures, all sites	21,550†	11,639	9,907	*
Fracture of neck of femur	6,073	4,061	2,012	0
Poisonings	7,639	4,179	3,460	0

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; ‡ Excluding newborn infants.

**TABLE 4A-3
NUMBER OF DISCHARGES* BY FIRST-LISTED DIAGNOSIS AND RACE/ETHNICITY, ARIZONA, 2012**

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				
Total	662,932	26,721	9,631	32,354	129,797	455,792	898	7,739		
Infectious and parasitic diseases	35,352	1,898	477	1,640	7,107	23,797	47	386		
Septicemia	23,705	1,382	306	973	4,536	16,215	39	254		
Enterocolitis due to <i>Clostridium difficile</i>	2,870†	90	21	90	371	2,272	*	25		
Neoplasms	24,919	544	460	1,049	3,643	18,856	23	344		
Malignant neoplasms	19,351	410	337	647	2,533	15,146	19	259		
Large intestine	2,400†	39	30	53	319	1,929	*	22		
Prostate	1,454	8	15	71	129	1,204	0	27		
Trachea bronchus and lung	2,289	15	37	93	159	1,961	0	24		
Breast	1,110†	17	17	45	148	867	*	18		
Benign neoplasms	4,440†	98	107	370	945	2,839	*	77		
Endocrine nutritional metabolic and immunity diseases	24,349	1,675	276	1,650	5,262	15,253	33	200		
Diabetes mellitus	11,274	1,070	89	872	2,852	6,287	18	86		
Volume depletion	70†	*	*	*	12	53	0	0		
Morbid obesity	1,860†	23	8	133	268	1,420	*	*		
Diseases of the blood and blood forming organs	7,065	268	114	999	1,355	4,234	7	88		
Mental disorders	41,408	1,584	431	2,448	5,865	30,157	154	769		
Psychoses	33,713	1,143	347	2,093	4,759	24,660	120	591		
Alcoholic psychoses	3,590†	278	21	76	406	2,781	*	27		
Drug psychoses	2,790†	41	21	98	340	2,246	*	37		
Schizophrenic disorders	5,136	191	86	602	893	3,212	35	117		
Manic-depressive disorders	19,262	523	166	1,077	2,675	14,402	65	354		
Neurotic disorders	7,691	441	84	355	1,106	5,493	34	178		
Anxiety states	610†	9	*	18	112	457	0	9		
Depression	2,619	137	38	140	389	1,829	15	71		
Drug dependence	820†	13	9	44	77	657	*	15		
Nondependent abuse of drugs	580†	74	*	35	97	353	*	12		
Alcohol dependence syndrome	1,260†	123	*	33	130	955	0	17		
Diseases of the nervous system	15,713	691	165	865	2,900	10,900	14	178		
Diseases of the circulatory system	90,000	2,181	1,061	4,267	11,233	70,252	70	936		
Heart disease	57,351	1,319	610	2,353	6,858	45,602	49	560		
Acute myocardial infarction	10,273	257	124	335	1,430	7,998	7	122		
Coronary atherosclerosis	8,410†	184	99	232	1,048	6,748	*	97		

**TABLE 4A-3 (continued)
NUMBER OF DISCHARGES* BY FIRST-LISTED DIAGNOSIS AND RACE/ETHNICITY, ARIZONA, 2012**

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	880†	33	6	40	115	674	*	8		
Cardiac dysrhythmias	15,418	274	155	435	1,418	13,004	10	122		
Cardiac arrest	180†	19	*	12	24	120	0	*		
Congestive heart failure	2,192	67	27	103	349	1,613	14	19		
Cerebrovascular disease	17,013	386	285	749	2,111	13,230	10	242		
Diseases of the respiratory system	57,581	2,557	655	3,033	10,176	40,483	86	591		
Acute bronchitis and bronchiolitis	3,970†	354	55	247	1,368	1,858	*	87		
Pneumonia	17,546	900	231	755	3,078	12,397	32	153		
Chronic bronchitis	9,366	90	54	326	674	8,175	18	29		
Asthma	7,267	343	83	877	1,812	4,046	14	92		
Diseases of the digestive system	70,431	3,115	826	2,804	14,605	48,334	103	644		
Appendicitis	6,092	206	101	202	1,996	3,499	15	73		
Noninfectious enteritis and colitis	6,111	159	66	271	924	4,619	20	52		
Diverticula of intestine	5,920†	118	44	189	916	4,604	*	50		
Cholelithiasis	8,673	474	110	260	2,678	5,063	7	81		
Diseases of the genitourinary system	33,829	1,215	390	1,483	6,971	23,412	33	325		
Calculus of kidney and ureter	4,100†	56	47	99	781	3,061	*	47		
Diseases of the skin and subcutaneous tissue	16,231	921	138	618	3,111	11,266	24	153		
Cellulitis and abscess	14,159	791	110	506	2,732	9,867	23	130		
Diseases of the musculoskeletal system	41,653	968	362	1,336	4,575	33,994	25	393		
Osteoarthritis and allied disorders	20,150†	308	128	470	1,654	17,404	*	184		
Invertebral disc disorders	4,729	80	56	152	563	3,829	6	43		
Congenital anomalies	2,650†	143	24	108	754	1,555	*	65		
Conditions originating in perinatal period	3,130†	242	82	193	1,114	1,398	*	97		
Symptoms signs and ill-defined conditions	25,176	899	291	1,603	4,488	17,559	31	305		
Injury and poisoning	64,296	3,472	671	2,595	10,129	46,532	85	812		
Fractures, all sites	21,547	1,111	228	520	3,107	16,290	36	255		
Fracture of neck of femur	6,073	154	51	59	531	5,229	7	42		
Poisonings	7,639	331	54	349	1,178	5,621	8	98		

Note: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; ‡ Excluding newborn infants.

**TABLE 4A-4
NUMBER OF DISCHARGES^a BY PRIMARY PAYER, GENDER, AGE GROUP, RACE/ETHNICITY,
AND MARITAL STATUS, ARIZONA, 2012**

Selected characteristics		Total	Self	Private insurance (indemnity, HMO, PPO)	AHCCCS/Medicaid	Medicare	Other
Total		662,932	42,821	175,824	145,303	207,028	91,956
Gender	Female	385,642	19,037	108,655	98,931	108,904	50,115
	Male	277,280	23,783	67,166	46,366	98,124	41,841
	Unknown	10†	*	*	6	0	0
Age group	Children <15 years	37,148	1,320	12,460	21,263	32	2,073
	Adolescents 15-19 years	23,070	1,403	7,926	12,381	79	1,281
	Young adults 20-44 years	189,918	20,575	71,709	74,896	9,343	13,395
	Middle-aged adults 45-64 years	172,945	17,961	70,433	33,181	30,119	21,251
	Elderly 65+ years	239,846	1,561	13,295	3,581	167,453	53,956
	Unknown	10†	*	*	*	*	0
Race/ethnicity	American Indian or Alaska Native	26,721	1,409	3,784	8,946	6,157	6,425
	Asian or Pacific Islander	9,631	647	4,060	2,192	1,713	1,019
	Black or African American	32,354	2,829	6,964	11,563	7,369	3,629
	Hispanic or Latino	129,797	12,439	26,843	57,503	19,943	13,069
	White non-Hispanic	455,792	24,731	131,537	62,769	169,969	66,786
	Other	898	95	221	306	202	74
	Refused	7,739	671	2,415	2,024	1,675	954
Patient's marital status	Single	238,161	24,016	58,855	96,677	34,691	23,922
	Married	283,469	11,735	100,515	31,591	99,617	40,011
	Separated	6,546	897	1,231	2,077	1,477	864
	Divorced	55,024	4,372	10,426	10,491	20,069	9,666
	Widowed	74,038	1,246	3,780	2,777	49,461	16,774
	Unknown	5,450	554	999	1,467	1,713	717
	Not Applicable	240†	*	18	223	0	*

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; ^a Excluding newborn infants.

**TABLE 4A-5
AVERAGE LENGTH OF STAY FOR DISCHARGES^a BY FIRST-LISTED DIAGNOSIS AND AGE GROUP, ARIZONA, 2012**

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	4.5	4.5	4.1	3.7	4.8	4.9	3.6
Infectious and parasitic diseases	6.3	4.4	4.7	5.5	6.9	6.4	0.0
Septicemia	6.9	11.4	6.1	6.1	7.6	6.6	0.0
Enterocolitis due to <i>Clostridium difficile</i>	5.7	4.9	3.9	4.8	5.5	6.1	0.0
Neoplasms	5.8	10.8	9.0	4.9	5.5	6.0	0.0
Malignant neoplasms	6.3	12.1	11.4	6.5	6.0	6.2	0.0
Large intestine	7.5	0.0	0.0	7.2	7.4	7.6	0.0
Prostate	2.0	0.0	0.0	1.7	1.8	2.2	0.0
Trachea bronchus and lung	6.5	5.0	11.4	7.1	6.7	6.4	0.0
Breast	2.0	0.0	0.0	2.1	2.2	1.8	0.0
Benign neoplasms	3.5	6.2	4.0	2.7	3.3	4.7	0.0
Endocrine nutritional metabolic and immunity diseases	3.8	3.5	3.2	3.2	4.1	4.0	0.0
Diabetes mellitus	4.4	2.7	2.4	3.4	5.0	5.1	0.0
Volume depletion	3.4	0.0	0.0	8.0	2.2	3.0	0.0
Morbid obesity	2.1	0.0	1.4	1.9	2.2	3.0	0.0
Diseases of the blood and blood forming organs	3.8	4.2	6.1	3.8	3.9	3.6	0.0
Mental disorders	8.2	8.3	7.8	7.8	8.4	10.2	6.0
Psychoses	8.7	8.5	8.0	8.2	8.9	11.1	6.0
Alcoholic psychoses	4.7	0.0	5.5	4.2	4.9	6.1	0.0
Drug psychoses	5.0	2.0	6.1	5.0	4.7	4.0	0.0
Schizophrenic disorders	13.5	13.2	14.5	13.0	13.6	19.4	0.0
Manic-depressive disorders	8.6	8.4	7.7	7.9	9.1	12.6	6.0
Neurotic disorders	6.1	6.6	7.0	5.9	6.1	6.1	0.0
Anxiety states	4.7	5.1	4.2	5.0	4.3	4.9	0.0
Depression	6.0	6.2	5.5	5.6	6.2	7.9	0.0
Drug dependence	9.2	20.2	13.1	7.6	8.6	14.1	0.0
Nondependent abuse of drugs	2.6	1.9	3.5	2.6	2.2	3.3	0.0
Alcohol dependence syndrome	6.7	4.0	6.8	6.2	7.2	6.1	0.0
Diseases of the nervous system	4.2	3.8	3.6	3.5	4.0	5.0	0.0
Diseases of the circulatory system	4.0	7.2	4.6	4.1	4.1	4.0	0.0
Heart disease	4.1	7.8	3.9	3.9	4.0	4.1	0.0
Acute myocardial infarction	4.2	8.0	3.0	3.2	3.9	4.5	0.0
Coronary atherosclerosis	3.7	0.0	0.0	3.1	3.4	3.9	0.0

TABLE 4A-5 (continued)
AVERAGE LENGTH OF STAY FOR DISCHARGES^a BY FIRST-LISTED DIAGNOSIS AND AGE GROUP, ARIZONA, 2012

Category of first-listed diagnosis	All ages	Patient's 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	2.3	2.0	0.0	2.3	2.2	2.4	0.0
Cardiac dysrhythmias	3.0	3.4	2.3	2.2	2.9	3.1	0.0
Cardiac arrest	2.6	2.4	0.0	3.2	3.2	2.2	0.0
Congestive heart failure	4.1	18.5	1.0	7.1	3.9	3.6	0.0
Cerebrovascular disease	3.8	11.4	7.6	5.4	4.4	3.4	0.0
Diseases of the respiratory system	4.9	3.0	4.3	4.5	5.4	5.5	0.0
Acute bronchitis and bronchiolitis	3.1	3.2	2.9	2.7	2.8	3.0	0.0
Pneumonia	4.5	3.1	5.4	4.4	4.8	4.8	0.0
Chronic bronchitis	4.0	2.0	0.0	3.4	3.8	4.1	0.0
Asthma	3.0	2.1	2.8	3.0	3.7	4.1	0.0
Diseases of the digestive system	4.1	3.6	3.2	3.4	4.2	4.6	0.0
Appendicitis	2.6	3.1	2.2	2.0	2.8	3.9	0.0
Noninfectious enteritis and colitis	4.1	3.6	5.4	3.7	4.2	4.4	0.0
Diverticula of intestine	4.3	1.0	0.0	4.1	4.3	4.4	0.0
Cholelithiasis	3.2	3.0	2.5	2.4	3.2	4.3	0.0
Diseases of the genitourinary system	3.4	3.2	2.9	2.6	3.5	3.9	4.0
Calculus of kidney and ureter	2.2	2.5	2.3	1.9	2.2	2.7	0.0
Diseases of the skin and subcutaneous tissue	4.1	2.3	3.2	3.5	4.3	4.9	2.0
Cellulitis and abscess	3.7	2.2	2.9	3.3	4.0	4.3	2.0
Diseases of the musculoskeletal system	3.2	3.7	4.3	3.4	3.2	3.2	0.0
Osteoarthritis and allied disorders	2.7	4.0	4.0	2.5	2.6	2.7	0.0
Invertebral disc disorders	2.7	2.0	2.2	2.2	2.6	3.2	0.0
Congenital anomalies	6.7	8.4	3.7	4.0	4.1	4.3	0.0
Conditions originating in perinatal period	10.1	10.2	1.0	2.7	0.0	1.0	0.0
Symptoms signs and ill-defined conditions	2.5	2.6	2.4	2.4	2.4	2.6	4.0
Injury and poisoning	4.7	3.7	3.4	4.2	5.1	5.0	0.0
Fractures, all sites	4.4	2.3	3.8	4.1	4.7	4.6	0.0
Fracture of neck of femur	5.0	2.6	5.1	5.0	5.1	5.0	0.0
Poisonings	3.0	1.7	2.1	2.7	3.5	3.6	0.0

Notes: ^a 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).

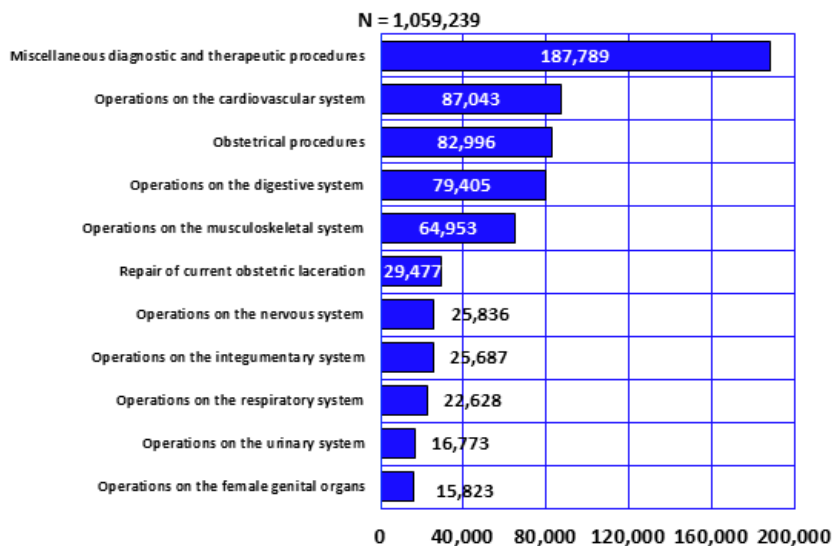
For comparability with the national data*, the rates of all-listed procedures are presented per 10,000 population. The groupings of ICD-9-CM codes used to identify specific procedure categories can be accessed at <http://www.azdhs.gov/plan/hip/cat/icd9procedure.xls>

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 - 2012 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

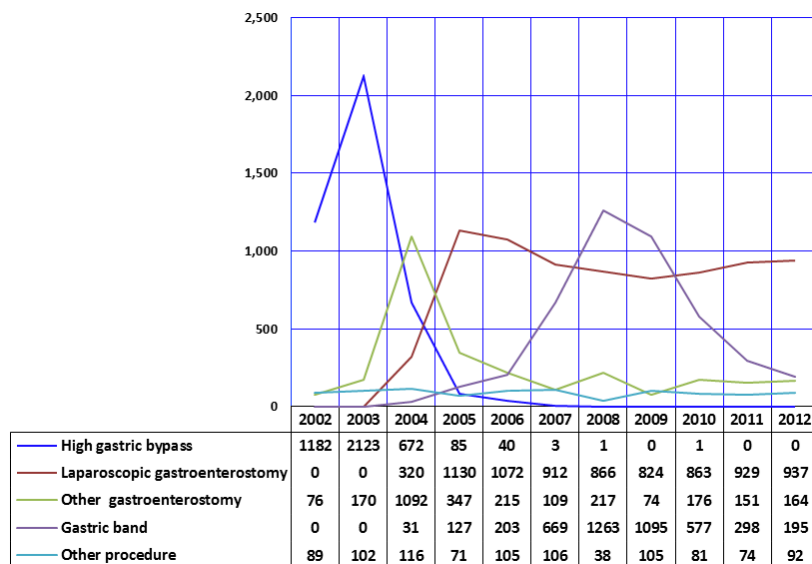
Figure 4B-1
Ten Leading Categories of All-listed Inpatient Procedures,
Arizona Residents, 2012



During 2012, 1,059,239 procedures were performed among the 745,838 total inpatient discharges to Arizona residents. The rate of procedures was 1,630.0 per 10,000 population. For Arizona males, this rate was 1,430.0/10,000, and for Arizona females it was 1,827.9/10,000.

No specific procedure was recorded for approximately 40.6 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), followed by operations on the cardiovascular system, obstetrical procedures, and operations on the digestive system (**Figure 4B-1, Table 4B1**).

Figure 4B-2
Trends in Types of Inpatient Procedures Performed in Treatment of Morbid Obesity, Arizona Residents, 2002-2012



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 2012, **morbid obesity** (ICD-9-CM code 278.01) was the principal diagnosis for 1,857 inpatient hospitalizations (**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 2 gastric bypass surgeries being completed in the past 5 years (**Figure 4B-2**). Not a single *laparoscopic gastroenterostomy* procedure was reported in Arizona prior to 2004. In 2012, it was the most popular, with 937 procedures performed.

Note: 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, 2012**

Procedures by category	Total	Age group					Un- known
		Children <15 years	Adoles- cents 15-19 years	Young adults 20-44 years	Middle- aged adults 45-64 years	Elderly 65+ years	
All procedures	1,059,239	73,781	29,360	291,485	289,453	375,157	3
Operations on the nervous system	25,836	3,184	1,195	7,551	6,666	7,240	0
Spinal tap	7,972	2,335	268	1,982	1,953	1,434	0
Operations on the endocrine system	1,992	32	39	533	783	605	0
Operations on the eye	853	104	39	298	198	214	0
Operations on the ear	471	166	23	111	95	76	0
Operations on the nose, mouth, and pharynx	4,345	743	199	1,203	1,160	1,040	0
Operations on the respiratory system	22,628	846	373	3,070	6,930	11,409	0
Bronchoscopy with or without biopsy	1,080†	17	*	161	389	504	0
Operations on the cardiovascular system	87,040†	3,724	697	9,668	28,913	44,040	*
Removal of coronary artery obstruction	9,460†	0	*	413	3,817	5,231	0
Coronary artery bypass graft	3,810†	*	0	100	1,279	2,431	0
Cardiac catheterization	22,292	203	31	1,414	8,656	11,988	0
Insertion, replacement, removal, of pacemaker leads	4,370†	31	10	161	708	3,459	*
Hemodialysis	16,469	21	54	2,511	6,584	7,299	0
Operations on the hemic and lymphatic system	7,721	288	115	1,033	2,955	3,330	0
Operations on the digestive system	79,405	3,299	1,830	19,304	26,435	28,537	0
Gastric band	170†	0	*	79	74	14	0
Endoscopy of small intestine with or without biopsy	20,692	363	289	3,895	6,840	9,305	0
Endoscopy of large intestine with or without biopsy	9,315	164	131	1,622	2,813	4,585	0
Partial excision of large intestine	3,214	35	21	406	1,117	1,635	0
Appendectomy, excluding incidental	6,730	1,434	768	2,493	1,388	647	0
Cholecystectomy	11,672	88	385	4,663	3,468	3,068	0
Lysis of peritoneal adhesions	7,368	125	69	1,955	2,631	2,588	0
Operations on the urinary system	16,773	541	218	3,623	5,486	6,905	0
Cystoscopy with or without biopsy	3,996	165	39	985	1,333	1,474	0
Operations on the male genital organs	10,436	7,460	26	229	1,141	1,580	0
Prostatectomy	2,246	0	0	17	899	1,330	0

TABLE 4B-1 (continued)
NUMBER OF PROCEDURES BY CATEGORY AND AGE GROUP, ARIZONA, 2012

Procedures by category	Total	Age group					Un- known
		Children <15 years	Adoles- cents 15-19 years	Young adults 20-44 years	Middle- aged adults 45-64 years	Elderly 65+ years	
Operations on the female genital organs	15,823	132	217	10,180	3,783	1,511	0
Oophorectomy and salpingo-oophorectomy	4,340	11	23	1,358	2,177	771	0
Bilateral destruction/occlusion of fallopian tubes	4,590†	0	*	4,568	20	0	0
Hysterectomy	6,050†	0	*	2,592	2,725	732	0
Obstetrical procedures	83,000†	69	7,837	74,986	103	0	*
Episiotomy with or w/o forceps or vacuum extraction	6,430†	10	974	5,444	*	0	0
Artificial rupture of membranes	22,780†	24	2,331	20,409	19	0	*
Cesarean section	23,500†	*	1,337	22,094	61	0	0
Repair of current obstetric laceration	29,477	38	3,554	25,868	17	0	0
Operations on the musculoskeletal system	64,953	1,577	1,126	9,311	22,276	30,663	0
Partial excision of bone	8,549	184	166	1,497	3,661	3,041	0
Reduction of fracture	11,399	616	384	2,277	2,855	5,267	0
Open reduction of fracture with internal fixation	8,161	279	304	1,884	2,267	3,427	0
Excision or destruction of intervertebral disc	5,810†	*	24	1,351	2,595	1,840	0
Total hip replacement	6,450†	*	*	297	2,386	3,762	0
Total knee replacement	13,370†	*	6	243	4,967	8,152	0
Operations on the integumentary system	25,687	1,513	713	7,197	9,037	7,227	0
Debridement of wound, infection, or burn	5,952	229	131	1,594	2,297	1,701	0
Miscellaneous diagnostic and therapeutic procedures	187,789	31,297	3,441	32,574	48,697	71,780	0
Computerized axial tomography	3,478	93	45	548	975	1,817	0
Arterio- & angiocardiology using contrast material	27,923	213	68	1,959	10,349	15,334	0
Diagnostic ultrasound	9,954	422	96	1,219	3,068	5,149	0
Respiratory therapy	28,482	3,301	391	4,125	8,694	11,971	0
Insertion of endotracheal tube	16,130	2,255	234	2,640	4,902	6,099	0
Injection/infusion of cancer chemotherapy substance	3,600	803	259	651	1,048	839	0

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

**TABLE 4B-2 (correction)
NUMBER OF PROCEDURES BY CATEGORY AND GENDER, ARIZONA, 2012**

Procedures by category	Total	Patient's gender		
		Female	Male	Unknown
All procedures	1,059,239	596,898	462,313	28
Operations on the nervous system	25,836	14,493	11,343	0
Spinal tap	7,972	4,111	3,861	0
Operations on the endocrine system	1,992	1,356	636	0
Operations on the eye	853	294	559	0
Operations on the ear	471	155	316	0
Operations on the nose, mouth, and pharynx	4,345	1,694	2,651	0
Operations on the respiratory system	22,628	10,311	12,317	0
Bronchoscopy with or without biopsy	1,075	491	584	0
Operations on the cardiovascular system	87,040†	38,858	48,184	*
Removal of coronary artery obstruction	9,462	3,077	6,385	0
Coronary artery bypass graft	3,811	938	2,873	0
Cardiac catheterization	22,292	8,557	13,735	0
Insertion, replacement, removal, of pacemaker leads	4,370	2,039	2,331	0
Hemodialysis	16,469	7,431	9,038	0
Operations on the hemic and lymphatic system	7,721	3,913	3,808	0
Operations on the digestive system	79,405	43,504	35,901	0
Gastric band	168	137	31	0
Endoscopy of small intestine with or without biopsy	20,692	10,783	9,909	0
Endoscopy of large intestine with or without biopsy	9,315	5,329	3,986	0
Partial excision of large intestine	3,214	1,648	1,566	0
Appendectomy, excluding incidental	6,730	3,186	3,544	0
Cholecystectomy	11,672	7,552	4,120	0
Lysis of peritoneal adhesions	7,368	5,179	2,189	0
Operations on the urinary system	16,773	8,671	8,102	0
Cystoscopy with or without biopsy	3,996	2,454	1,542	0
Operations on the male genital organs	10,440†	0	10,432	*
Prostatectomy	2,246	0	2,246	0

**TABLE 4B-2 (continued)
NUMBER OF PROCEDURES BY CATEGORY AND GENDER, ARIZONA, 2012**

Procedures by category	Total	Patient's gender		
		Female	Male	Unknown
Operations on the female genital organs	15,823	15,823	0	0
Oophorectomy and salpingo-oophorectomy	4,340	4,340	0	0
Bilateral destruction/occlusion of fallopian tubes	4,589	4,589	0	0
Hysterectomy	6,052	6,052	0	0
Obstetrical procedures	83,000†	82,995	0	*
Episiotomy with or w/o forceps or vacuum extraction	6,432	6,432	0	0
Artificial rupture of membranes	22,780†	22,783	0	*
Cesarean section	23,497	23,497	0	0
Repair of current obstetric laceration	29,480†	29,476	0	*
Operations on the musculoskeletal system	64,950†	33,634	31,318	*
Partial excision of bone	8,549	3,956	4,593	0
Reduction of fracture	11,399	6,375	5,024	0
Open reduction of fracture with internal fixation	8,161	4,521	3,640	0
Excision or destruction of intervertebral disc	5,813	2,936	2,877	0
Total hip replacement	6,452	3,690	2,762	0
Total knee replacement	13,373	7,902	5,471	0
Operations on the integumentary system	25,690†	12,297	13,389	*
Debridement of wound, infection, or burn	5,952	2,473	3,479	0
Miscellaneous diagnostic and therapeutic procedures	187,789	95,292	92,484	13
Computerized axial tomography	3,478	1,844	1,634	0
Arterio- & angiocardiology using contrast material	27,923	11,150	16,773	0
Diagnostic ultrasound	9,954	4,318	5,636	0
Respiratory therapy	28,480†	12,733	15,747	*
Insertion of endotracheal tube	16,130	7,079	9,051	0
Injection/infusion of cancer chemotherapy substance	3,600	1,634	1,966	0

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

**TABLE 4B-3
NUMBER OF PROCEDURES BY CATEGORY AND RACE/ETHNICITY, ARIZONA, 2012**

Procedures by category	Total	Race/ethnicity						Refused
		American Indian or Alaska Native	Asian or Pacific Islander	Black or African American	Hispanic or Latino	White non-Hispanic	Other	
All procedures	1,059,239	43,732	17,403	46,150	210,794	726,190	1,078	13,892
Operations on the nervous system	25,836	981	461	1,096	5,915	17,011	18	354
Spinal tap	7,970†	350	138	472	2,100	4,795	*	114
Operations on the endocrine system	1,990†	63	61	107	381	1,338	*	37
Operations on the eye	853	92	12	33	162	527	0	27
Operations on the ear	471	45	7	13	109	287	0	10
Operations on the nose, mouth, and pharynx	4,350†	290	63	257	897	2,765	*	70
Operations on the respiratory system	22,628	853	332	934	3,315	16,908	18	268
Bronchoscopy with or without biopsy	1,080†	31	13	54	171	800	*	*
Operations on the cardiovascular system	87,043	3,603	990	4,038	12,798	64,539	67	1,008
Removal of coronary artery obstruction	9,462	216	93	281	1,280	7,470	6	116
Coronary artery bypass graft	3,810†	114	70	74	446	3,060	*	45
Cardiac catheterization	22,292	608	234	920	3,099	17,159	10	262
Insertion, replacement, removal, of pacemaker leads	4,370†	113	46	136	430	3,596	*	48
Hemodialysis	16,469	2,034	243	1,669	4,726	7,617	10	170
Operations on the hemic and lymphatic system	7,721	187	143	268	1,062	5,946	7	108
Operations on the digestive system	79,405	3,487	1,080	3,282	16,133	54,531	95	797
Gastric band	170†	*	*	14	21	127	*	0
Endoscopy of small intestine with or without biopsy	20,692	1,006	289	924	3,540	14,728	30	175
Endoscopy of large intestine with or without biopsy	9,315	365	106	439	1,405	6,897	14	89
Partial excision of large intestine	3,210†	76	24	105	385	2,597	*	25
Appendectomy, excluding incidental	6,730	233	115	234	2,126	3,919	14	89
Cholecystectomy	11,672	618	152	354	3,384	7,056	9	99
Lysis of peritoneal adhesions	7,370†	192	108	351	1,344	5,299	*	70
Operations on the urinary system	16,773	451	224	590	2,800	12,524	9	175
Cystoscopy with or without biopsy	4,000†	81	60	164	699	2,948	*	39
Operations on the male genital organs	10,440†	135	318	441	1,444	7,929	*	168
Prostatectomy	2,246	17	26	87	227	1,851	0	38

**TABLE 4B-3 (continued)
NUMBER OF PROCEDURES BY CATEGORY AND RACE/ETHNICITY, ARIZONA, 2012**

Procedures by category	Total	Race/ethnicity							Refused
		American Indian or Alaska Native	Asian or Pacific Islander	Black or African American	Hispanic or Latino	White non-Hispanic	Other		
Operations on the female genital organs	15,823	501	367	933	4,705	9,064	23	230	
Oophorectomy and salpingo-oophorectomy	4,340†	97	89	187	836	3,067	*	61	
Bilateral destruction/occlusion of fallopian tubes	4,589	177	121	229	1,986	2,002	9	65	
Hysterectomy	6,050†	128	122	349	1,365	3,985	*	99	
Obstetrical procedures	82,996	3,332	2,793	4,352	31,469	39,731	129	1,190	
Episiotomy with or w/o forceps or vacuum extraction	6,432	174	279	186	1,711	3,981	7	94	
Artificial rupture of membranes	22,784	927	707	1,180	8,036	11,597	29	308	
Cesarean section	23,497	934	909	1,395	8,196	11,670	34	359	
Repair of current obstetric laceration	29,477	972	1,188	1,115	10,645	15,035	54	468	
Operations on the musculoskeletal system	64,953	2,445	590	2,003	8,282	50,931	49	653	
Partial excision of bone	8,550†	374	93	287	1,138	6,567	*	88	
Reduction of fracture	11,399	527	112	293	1,771	8,566	12	118	
Open reduction of fracture with internal fixation	8,161	405	83	216	1,259	6,097	8	93	
Excision or destruction of intervertebral disc	5,813	106	63	157	643	4,775	8	61	
Total hip replacement	6,450†	53	38	134	331	5,844	*	50	
Total knee replacement	13,370†	265	97	328	1,347	11,195	*	138	
Operations on the integumentary system	25,687	1,673	287	1,329	4,762	17,291	31	314	
Debridement of wound, infection, or burn	5,952	509	43	273	1,139	3,909	13	66	
Miscellaneous diagnostic and therapeutic procedures	187,789	8,425	3,080	8,550	36,524	128,158	229	2,823	
Computerized axial tomography	3,478	83	49	131	433	2,713	0	69	
Arterio- & angiocardiology using contrast material	27,923	797	308	1,195	3,927	21,354	8	334	
Diagnostic ultrasound	9,950†	311	140	423	1,333	7,606	*	137	
Respiratory therapy	28,482	1,776	370	1,368	4,608	19,773	32	555	
Insertion of endotracheal tube	16,130	971	204	836	2,852	10,937	23	307	
Injection/infusion of cancer chemotherapy substance	3,600†	107	71	157	751	2,460	*	52	

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

**TABLE 4B-4
NUMBER OF PROCEDURES BY CATEGORY AND EXPECTED SOURCE OF PAYMENT, ARIZONA, 2012**

Procedures by category	Total	Self	Private insurance (indemnity, HMO, PPO)	AHCCCS/Medicaid	Medicare	Other
All procedures	1,059,239	59,746	310,865	223,864	316,231	148,533
Operations on the nervous system	25,836	1,376	8,148	6,995	6,171	3,146
Spinal tap	7,972	634	2,470	2,687	1,399	782
Operations on the endocrine system	1,992	87	792	334	531	248
Operations on the eye	853	150	207	184	172	140
Operations on the ear	471	62	131	140	66	72
Operations on the nose, mouth, and pharynx	4,345	554	1,268	1,026	934	563
Operations on the respiratory system	22,628	1,467	4,633	3,180	9,435	3,913
Bronchoscopy with or without biopsy	1,075	63	224	167	466	155
Operations on the cardiovascular system	87,043	5,082	18,072	11,671	36,733	15,485
Removal of coronary artery obstruction	9,462	803	2,400	705	3,950	1,604
Coronary artery bypass graft	3,811	165	951	221	1,855	619
Cardiac catheterization	22,292	1,706	5,283	2,103	9,462	3,738
Insertion, replacement, removal, of pacemaker leads	4,370	101	517	227	2,578	947
Hemodialysis	16,469	376	1,418	2,119	9,989	2,567
Operations on the hemic and lymphatic system	7,721	297	2,841	870	2,619	1,094
Operations on the digestive system	79,405	6,337	23,442	14,346	24,093	11,187
Gastric band	170†	*	140	*	16	10
Endoscopy of small intestine with or without biopsy	20,692	1,657	4,363	3,431	7,692	3,549
Endoscopy of large intestine with or without biopsy	9,315	628	2,137	1,243	3,677	1,630
Partial excision of large intestine	3,214	188	918	327	1,268	513
Appendectomy, excluding incidental	6,730	863	3,091	1,787	549	440
Cholecystectomy	11,672	1,292	3,844	2,735	2,465	1,336
Lysis of peritoneal adhesions	7,368	292	2,602	1,312	2,191	971
Operations on the urinary system	16,773	1,034	5,219	2,295	5,820	2,405
Cystoscopy with or without biopsy	3,996	192	1,492	600	1,183	529
Operations on the male genital organs	10,436	388	6,294	1,693	1,136	925
Prostatectomy	2,246	29	862	78	921	356

TABLE 4B-4 (continued)
NUMBER OF PROCEDURES BY CATEGORY AND EXPECTED SOURCE OF PAYMENT, ARIZONA, 2012

Procedures by category	Total	Self	Private insurance (indemnity, HMO, PPO)	AHCCCS/Medicaid	Medicare	Other
Operations on the female genital organs	15,823	670	7,337	5,355	1,383	1,078
Oophorectomy and salpingo-oophorectomy	4,340	192	2,380	716	680	372
Bilateral destruction/occlusion of fallopian tubes	4,589	136	1,672	2,581	54	146
Hysterectomy	6,052	180	3,525	1,209	655	483
Obstetrical procedures	82,996	2,659	33,816	42,717	339	3,465
Episiotomy with or w/o forceps or vacuum extraction	6,432	198	3,278	2,677	20	259
Artificial rupture of membranes	22,784	644	9,640	11,421	77	1,002
Cesarean section	23,497	652	10,478	11,226	135	1,006
Repair of current obstetric laceration	29,477	1,064	13,640	13,474	91	1,208
Operations on the musculoskeletal system	64,953	3,317	18,381	6,855	24,709	11,691
Partial excision of bone	8,549	313	2,923	1,040	2,773	1,500
Reduction of fracture	11,399	1,075	2,716	1,381	3,978	2,249
Open reduction of fracture with internal fixation	8,161	862	2,135	969	2,569	1,626
Excision or destruction of intervertebral disc	5,813	107	2,544	570	1,581	1,011
Total hip replacement	6,452	39	2,143	327	2,937	1,006
Total knee replacement	13,373	57	4,244	683	6,129	2,260
Operations on the integumentary system	25,687	2,993	6,684	5,055	7,041	3,914
Debridement of wound, infection, or burn	5,952	715	1,319	1,099	1,848	971
Miscellaneous diagnostic and therapeutic procedures	187,789	10,845	49,730	39,613	60,476	27,125
Computerized axial tomography	3,478	183	836	411	1,377	671
Arterio- & angiocardiology using contrast material	27,923	1,925	6,308	2,689	12,101	4,900
Diagnostic ultrasound	9,954	516	2,537	1,119	4,193	1,589
Respiratory therapy	28,482	2,221	5,065	5,632	10,542	5,022
Insertion of endotracheal tube	16,130	1,568	2,871	3,555	5,434	2,702
Injection/infusion of cancer chemotherapy substance	3,600	118	1,612	812	749	309

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.



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, 2012



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

During 2012, more than 2.0 million visits were made by Arizona residents to hospital emergency rooms (ER), about 31.3 visits per 100 persons. The utilization rates vary by geographic region, with the Western United States having the lowest ER visit rate.

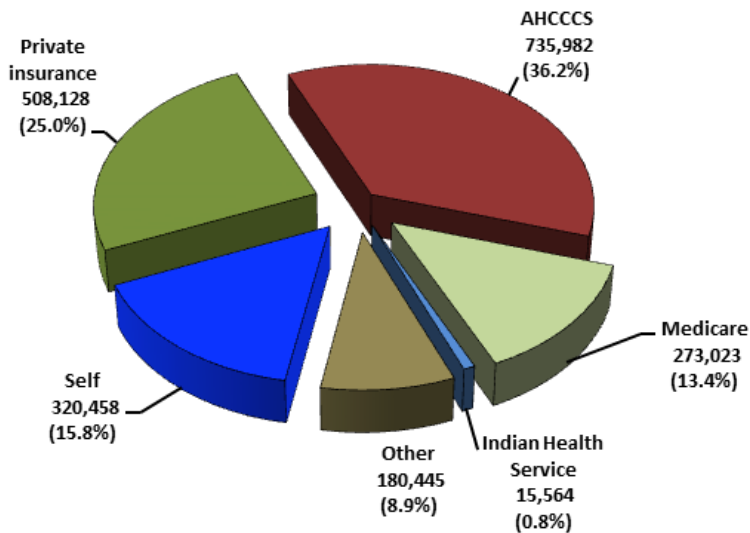
In Arizona, the number of ER visits increased by 3.7 percent from 1,961,684 in 2011.

In 2012, *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 (25.2 percent) of all visits (**Figure 4C-1, Table 4C-2**).

Both *rheumatism* (35,325 visits) and *fever* (28,685) 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, 2012



Notes: Number of visits per 100 persons; The actual number of ER visits for each group is provided below the bars.

The Arizona Health Care Cost Containment System (AHCCCS, the State's Medicaid program) was the most frequently recorded expected source of payment, accounting for 36.2 percent of ER visits (**Figure 4C-3**). Private insurance was the second most frequent payer (25.0 percent of ER visits), followed by self-pay patients (15.8 percent), and Medicare (13.4 percent).

**TABLE 4C-1
NUMBER OF EMERGENCY ROOM VISITS* BY FIRST-LISTED DIAGNOSIS AND AGE GROUP, ARIZONA, 2012**

Category of first-listed diagnosis	All Ages	Age group						Unknown
		<15	15-19	20-44	45-64	65+		
Total, all causes	2,033,600	421,019	132,354	781,765	411,524	286,920	18	
Infectious and parasitic diseases	42,886	20,777	3,124	11,959	4,411	2,615	0	
Neoplasms	2,877	139	57	846	996	839	0	
Endocrine nutritional metabolic and immunity diseases	31,193	2,727	1,130	9,954	9,531	7,851	0	
Diabetes mellitus	11,127	417	287	3,642	4,307	2,474	0	
Mental disorders	70,889	2,654	6,348	36,938	19,655	5,287	7	
Psychoses	15,033	371	851	7,409	4,411	1,991	0	
Alcoholic psychoses	2,070†	*	7	1,120	838	103	0	
Drug psychoses	3,556	18	217	2,111	977	233	0	
Schizophrenic disorders	1,880	10	60	1,115	630	65	0	
Manic-depressive disorders	3,618	256	382	1,788	1,036	156	0	
Neurotic disorders	55,843	2,283	5,494	29,524	15,239	3,296	7	
Anxiety states	15,806	330	1,164	9,185	3,759	1,368	0	
Depression	7,637	396	989	3,701	2,046	505	0	
Drug dependence	860†	*	65	578	187	25	0	
Nondependent abuse of drugs	18,486	344	2,028	10,206	5,315	586	7	
Alcohol dependence syndrome	4,671	14	87	2,116	2,248	206	0	
Diseases of the nervous system	122,730†	38,792	5,518	44,889	23,699	9,833	*	
Diseases of the circulatory system	52,260†	520	568	8,937	16,856	25,380	*	
Diseases of the respiratory system	206,014	91,536	12,316	58,325	26,957	16,880	0	
Acute bronchitis and bronchiolitis	25,361	10,251	1,031	8,015	3,793	2,271	0	
Pneumonia	20,035	8,700	772	4,302	3,341	2,920	0	
Chronic bronchitis	6,269	25	8	369	2,783	3,084	0	
Asthma	28,847	12,516	1,979	8,981	4,089	1,282	0	
Diseases of the digestive system	123,490	21,367	6,453	55,162	24,834	15,674	0	
Diseases of the genitourinary system	119,977	10,931	10,370	60,839	21,335	16,502	0	
Diseases of the skin and subcutaneous tissue	72,082	16,026	4,971	30,341	14,041	6,703	0	
Diseases of the musculoskeletal system	135,750†	7,126	5,659	58,773	39,955	24,240	*	
Symptoms signs and ill-defined conditions	510,340†	87,414	27,855	186,956	119,599	88,511	*	
Injury and poisoning	430,420†	106,730	36,025	150,640	77,741	59,283	*	
Fractures, all sites	55,188	14,203	4,145	14,668	11,107	11,065	0	
Sprains	84,380	9,815	8,547	40,903	17,896	7,219	0	
Intracranial	10,324	2,868	1,528	3,248	1,511	1,169	0	
Open wounds	86,220†	26,427	6,376	28,658	13,029	11,728	*	
Superficial	22,006	7,546	1,763	7,106	3,384	2,207	0	
Contusions	62,812	14,171	5,069	21,434	11,589	10,549	0	
Foreign bodies	9,733	4,504	346	2,457	1,466	960	0	
Burns	2,710†	757	198	1,119	480	159	*	
Trauma complications and unspecified injuries	41,700	14,564	3,418	11,484	5,934	6,300	0	
Poisonings	18,830†	4,581	2,017	7,202	3,625	1,407	*	
Surgical and medical complications	10,958	806	350	2,749	3,165	3,888	0	

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

TABLE 4C-2 (correction)
NUMBER OF EMERGENCY ROOM VISITS FOR THE LEADING DIAGNOSIS GROUPS^a AND AGE GROUP, ARIZONA, 2012

Primary diagnosis group	ICD-9-CM code(s)	All Ages	Age group					Unknown
			<15	15-19	20-44	45-64	65+	
Total, all causes		2,033,600	421,019	132,354	781,765	411,524	286,920	18
Abdominal pain	789.0	125,626	14,794	10,395	63,378	25,485	11,574	0
Chest pain	786.5	102,610†	2,353	3,566	36,179	37,884	22,622	*
Acute upper respiratory infection, excluding pharyngitis	460-461, 463-466	89,017	52,975	4,020	20,745	7,393	3,884	0
Mental disorders	290-319	70,889	2,654	6,348	36,938	19,655	5,287	7
Contusion with intact skin surface	920-924	62,812	14,171	5,069	21,434	11,589	10,549	0
Spinal disorders	720-724	62,530	1,704	2,240	30,802	18,382	9,402	0
Open wound, excluding head	874-897	48,910†	8,884	4,187	20,221	8,956	6,658	*
Cellulitis and abscess	681-682	42,263	5,906	2,496	19,956	9,604	4,301	0
Headache	784.0	40,713	3,055	2,926	21,863	9,484	3,385	0
Open wound of head	870-873	37,310†	17,543	2,189	8,437	4,073	5,070	*
Sprains and strains of neck and back	846, 847	35,699	1,811	2,742	19,521	8,605	3,020	0
Fever	780.6	28,685	23,931	692	2,140	1,051	871	0
Otitis media and eustachian tube disorders	381-382	32,374	25,922	983	4,139	1,037	293	0
Urinary tract infection, site not specified	599.0	39,957	6,484	3,188	15,219	6,563	8,503	0
Nausea, vomiting	787.0	40,526	15,504	2,346	13,138	5,491	4,047	0
Rheumatism, excluding back	725-729	35,325	2,682	1,362	13,944	10,574	6,763	0
Sprains and strains, excluding ankle and back	840-844, 845.1, 848	34,157	5,447	3,466	14,754	7,087	3,403	0
Asthma	493	28,847	12,516	1,979	8,981	4,089	1,282	0
Acute pharyngitis	462.0	23,247	8,678	3,231	9,117	1,619	602	0
Chronic and unspecified bronchitis	490-491	23,358	3,159	940	7,667	6,351	5,241	0
Superficial injuries	910-919	22,006	7,546	1,763	7,106	3,384	2,207	0
Pneumonia	480-486	20,035	8,700	772	4,302	3,341	2,920	0
Gastroenteritis and colitis	558.0	19,158	6,837	1,099	6,624	2,844	1,754	0
Migraine	346	17,693	663	1,025	10,916	4,518	571	0
Heart disease, excluding ischemic	391-392.0, 393-398, 402, 404, 415-416, 420-429	15,090†	280	184	2,103	4,116	8,408	*
Unspecified viral and chlamydial infection	79.9	10,212	5,886	675	2,627	748	276	0

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; ‡ Based on first-listed diagnosis.



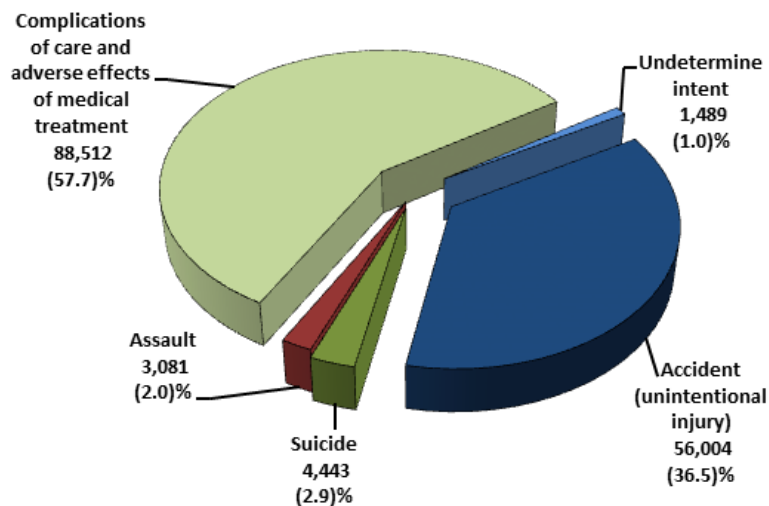
4D.

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).

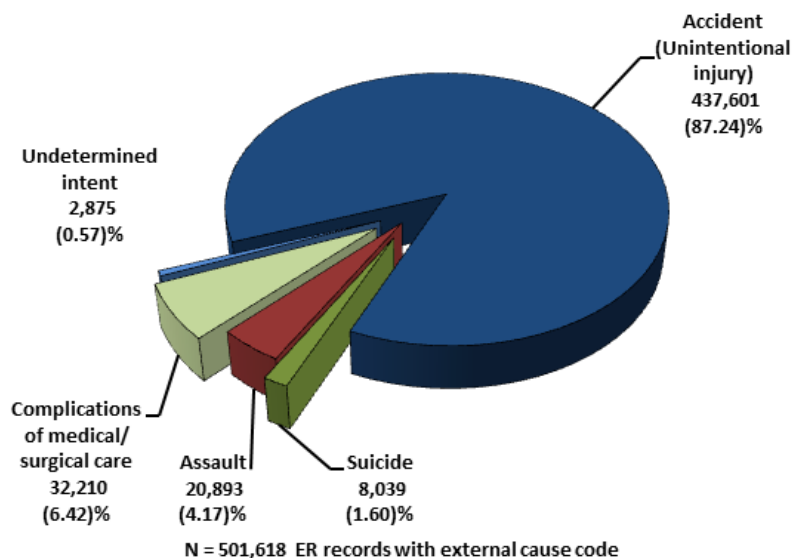
In 2009, the reporting requirements for hospital were revised and the non-injury first-listed diagnoses may also have an external cause of injury code. Beginning with the 2009 edition of this report, the reader is advised that the number of suicides, accidents, etc. shown in **Table 4D-1** and **Table 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 forward, among the suicide attempt-related ER visits, *injury and poisoning, mental disorders, chronic disease, infectious disease, or ill-defined conditions* were identified as the first-listed diagnosis.

Figure 4D-1
Percent Distribution of Inpatient Discharges by Intent of Injury,
Arizona Residents, 2012



In 2012, injury was indicated as the principal diagnosis on 64,296 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 (57.7 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 4,443 inpatient hospitalizations (2.9 percent). *Assault* accounted for 3,081 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, 2012



In 2012, 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 (437,601 or 87.2 percent) of all injury-related emergency room visits (Figure 4D-3, Table 4D-2). The external cause of injury was classified as *assault* for 20,893 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* (6.4 percent vs. 1.6 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 2012, *injury or poisoning* was the principal diagnosis on 3,609 inpatient discharge records, which also included the E codes for suicide (E950-E959). *Mental disorders* were identified as the principal diagnosis on the additional 612 suicide-related records. For the additional 222 inpatient discharges mentioning suicide attempt, the principal diagnosis was classified as *chronic disease, infectious disease, or ill-defined conditions*.

The number of suicide-related inpatient discharges has remained relatively consistent from 2008 – 2012.

Figure 4D-3
Suicide-related Inpatient Discharges by Year,
Arizona Residents, 2004 - 2012

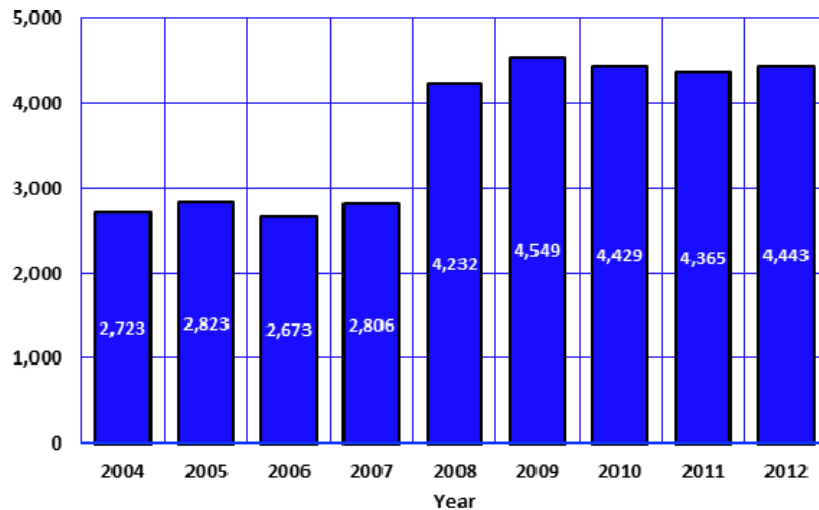
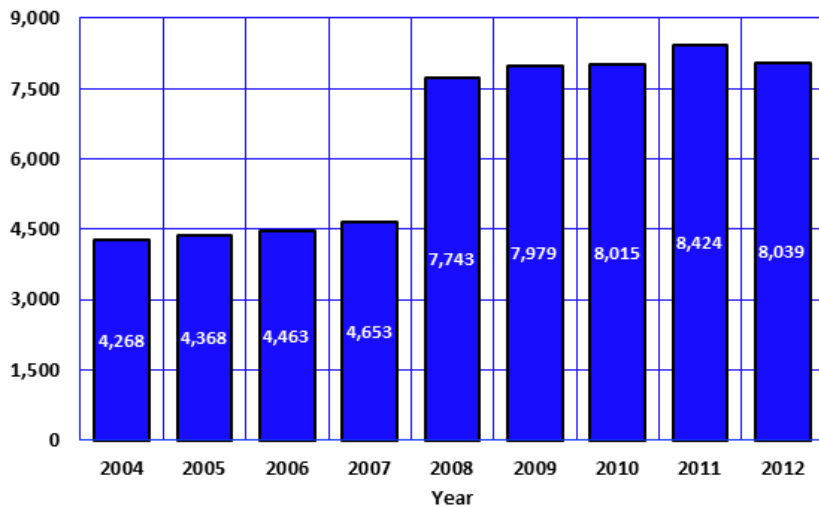


Figure 4D-4
Suicide-related Emergency Room Visits by Year,
Arizona Residents, 2004 - 2012

Injury or poisoning was the principal diagnosis on 6,039 ER discharge records, which also included the E codes for suicide (E950-E959). *Mental disorders* were identified as the principal diagnosis on 1,271 suicide-related records. For the additional 729 ER discharges mentioning suicide attempt, the principal diagnosis was classified as *chronic disease, infectious disease, or ill-defined conditions*.

Again, the number of suicide-related emergency room visits has remained fairly stable from 2008 through 2012.



**TABLE 4D-1
INPATIENT DISCHARGES BY INTENT AND MECHANISM FOR SELECTED EXTERNAL CAUSES BY GENDER, AGE GROUP, AND
RACE/ETHNICITY, ARIZONA, 2012**

	Total ^f	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 ACCIDENT^a	56,050 [†]	27,703	28,347	*	3,094	1,736	11,125	14,300	25,796	*	2,766	575	1,755	8,312	41,869	92	683
Fall	25,570 [†]	15,165	10,409	0	851	264	2,033	5,122	17,303	*	944	242	483	2,944	20,690	27	244
Motor vehicle accident	6,640 [†]	2,474	4,169	*	344	604	2,789	1,845	1,062	0	485	95	261	1,299	4,342	21	141
Accidental poisoning by drugs, medicinal substances gases and vapors	4,240 [†]	2,197	2,043	0	308	136	1,366	1,512	918	0	165	30	217	701	3,085	*	39
Natural and environmental factors	2,570 [†]	1,162	1,406	0	321	85	740	841	581	0	136	24	94	465	1,817	*	28
Exposure to excessive natural heat	400 [†]	78	319	0	*	7	116	154	117	0	13	*	24	84	267	*	*
Fire and flames	535	190	345	0	98	17	179	158	83	0	52	7	42	132	283	9	10
Machinery	230 [†]	15	219	0	6	7	95	91	35	0	6	*	7	68	144	*	*
SUICIDE^b	4,443	2,483	1,960	0	152	520	2,305	1,241	225	0	289	40	183	689	3,144	7	91
ASSAULT^c	3,081	602	2,479	0	117	243	1,910	706	105	0	713	25	309	743	1,215	9	67
INJURIES OF UNDETERMINED INTENT^d	1,490 [†]	712	780	0	75	61	456	501	399	0	65	*	80	286	1,033	*	23
COMPLICATIONS OF CARE AND ADVERSE EFFECTS OF MEDICAL TREATMENT^e	88,627	46,207	42,420	0	2,044	950	12,484	29,086	44,063	0	2,851	1,092	4,122	12,637	67,002	58	865
Misadventures to patients	1,770 [†]	1,098	669	0	20	23	271	609	844	0	53	27	65	276	1,327	*	16
Surgical and medical procedures as the cause of adverse reaction	44,814	22,017	22,797	0	1,427	538	6,949	15,538	20,362	0	1,698	525	2,096	6,885	33,129	27	454
Drugs causing adverse effects	42,046	23,092	18,954	0	597	389	5,264	12,939	22,857	0	1,100	540	1,961	5,476	32,546	28	395

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

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

^b First-listed external cause codes E950-E959.

^c First-listed external cause codes E960-E969.

^d First-listed external cause codes E890-E989.

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

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

* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

**TABLE 4D-2
EMERGENCY ROOM VISITS BY INTENT AND MECHANISM FOR SELECTED EXTERNAL CAUSES BY GENDER, AGE GROUP, AND
RACE/ETHNICITY, ARIZONA, 2012**

	Total ^f	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 ACCIDENT^a	437,600 [†]	214,746	222,850	8	109,508	34,776	149,649	80,394	63,272	*	16,765	4,963	25,183	114,734	270,517	474	4,968
Fall	142,560 [†]	78,551	64,006	*	41,575	6,254	29,780	27,051	37,895	*	5,251	1,363	6,102	33,861	94,373	139	1,469
Motor vehicle accident	48,380 [†]	26,487	21,889	6	4,563	5,605	24,615	10,104	3,494	*	1,709	937	4,120	13,441	27,361	68	746
Struck against or struck accidentally by objects or persons	51,609	19,955	31,654	0	19,466	7,017	16,410	5,622	3,094	0	1,809	555	3,458	14,660	30,463	50	614
Overexertion	40,904	20,338	20,566	0	5,525	4,268	19,614	8,208	3,289	0	1,600	417	2,703	10,650	25,081	38	415
Cutting or piercing instruments or objects	29,222	10,797	18,425	0	5,353	2,617	13,229	5,435	2,588	0	1,002	346	1,503	8,185	17,870	27	289
Natural and environmental factors	26,563	13,620	12,943	0	9,009	1,863	8,618	4,770	2,303	0	1,229	351	1,471	8,289	14,921	30	272
Exposure to excessive natural heat	1,852	605	1,247	0	148	144	892	451	217	0	81	20	138	506	1,094	0	13
Accidental poisoning by drugs, medicinal substances, biologicals, gases and vapors	7,410 [†]	3,769	3,640	0	2,136	525	2,522	1,495	731	0	277	57	426	1,798	4,770	*	76
Fire and flames	3,234	1,520	1,714	0	796	233	1,439	570	196	0	145	49	242	1,023	1,696	19	60
Machinery	1,475	203	1,272	0	61	53	653	469	239	0	25	10	36	426	967	0	11
Pedal cycle, nontraffic and other	7,526	2,080	5,446	0	2,761	708	2,267	1,415	375	0	225	73	304	1,785	5,043	6	90
Motor vehicle, nontraffic	1,560 [†]	513	1,047	0	275	225	698	281	81	0	52	14	53	368	1,052	*	18
Foreign body accidentally entering eye or other orifice	10,886	4,468	6,418	0	4,846	424	2,932	1,634	1,050	0	381	132	638	3,312	6,263	14	146
Suffocation	270 [†]	124	150	0	101	6	37	57	73	0	8	*	10	78	174	0	*
Firearm missile	760 [†]	99	662	0	178	122	350	71	40	0	33	*	56	256	399	*	12
Drowning/submersion	230 [†]	97	130	0	171	11	25	12	8	0	8	*	11	72	124	*	6
SUICIDE^b	8,039	4,743	3,296	0	490	1,552	4,427	1,412	158	0	406	64	456	1,664	5,344	10	95
ASSAULT^c	20,890 [†]	8,213	12,680	0	1,127	2,617	13,387	3,464	297	*	2,683	137	2,036	5,968	9,768	45	256
INJURIES OF UNDETERMINED INTENT^d	2,880 [†]	1,381	1,494	0	254	354	1,415	669	183	0	330	18	135	595	1,747	*	46
COMPLICATIONS OF CARE AND ADVERSE EFFECTS OF MEDICAL TREATMENT^e	32,211	18,415	13,796	0	3,258	1,377	10,091	8,472	9,013	0	995	371	1,800	6,994	21,723	22	306
Misadventures to patients	120 [†]	68	51	0	8	*	30	38	39	0	*	*	*	40	67	0	*
Surgical and medical procedures as the cause of adverse reaction	14,372	7,133	7,239	0	1,109	486	4,179	4,020	4,578	0	542	165	740	2,972	9,824	11	118
Drugs causing adverse effects	17,720	11,214	6,506	0	2,141	887	5,882	4,414	4,396	0	448	205	1,058	3,982	11,832	11	184

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

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