

CHAPTER 4

HOSPITAL INPATIENT DISCHARGES AND EMERGENCY ROOM VISITS:

2015 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**
- 4C. CHARACTERISTICS OF EMERGENCY ROOM VISITS BY DISEASE CATEGORY, DIAGNOSIS GROUP, AND AGE GROUP**
- 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.

For 2015 data year, diagnostic groupings and code numbers are based on the International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) (January to September), and the International Classification of Diseases and Related Problems, 10th Revision, Clinical Modification (ICD-10-CM) (October to December). ICD-10-CM incorporates greater details about medical diagnosis and represents a substantial increase in number of diagnostic codes, with about 69,000 codes compared with about 14,000 under ICD-9-CM. Due to fundamental changes in the coding systems, caution should be exercised in comparing 2015 inpatient data to previous years. Please refer to "The Implementation of the International Classification of Disease, Tenth Revision," Introduction page ix, for further explanation of this new coding system.

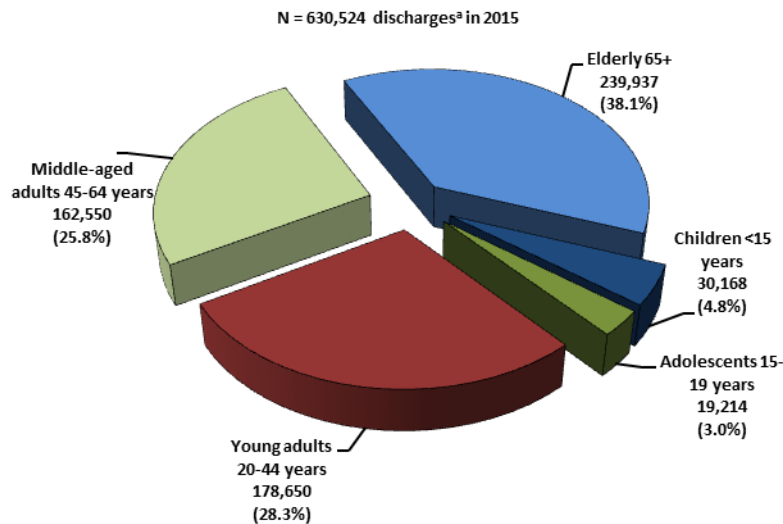
The change in the Arizona reporting requirements increased the number of diagnoses that are coded for each discharge from nine to twenty five. In this section, discharges are presented by principal diagnosis, which is the first one listed on the discharge summary of the medical record. The number of 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 and ICD-10-CM codes used to identify specific diagnostic categories can be accessed at:

<http://pub.azdhs.gov/health-stats/hip/cat/icd9-10primary.xlsx>.

*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, 2015

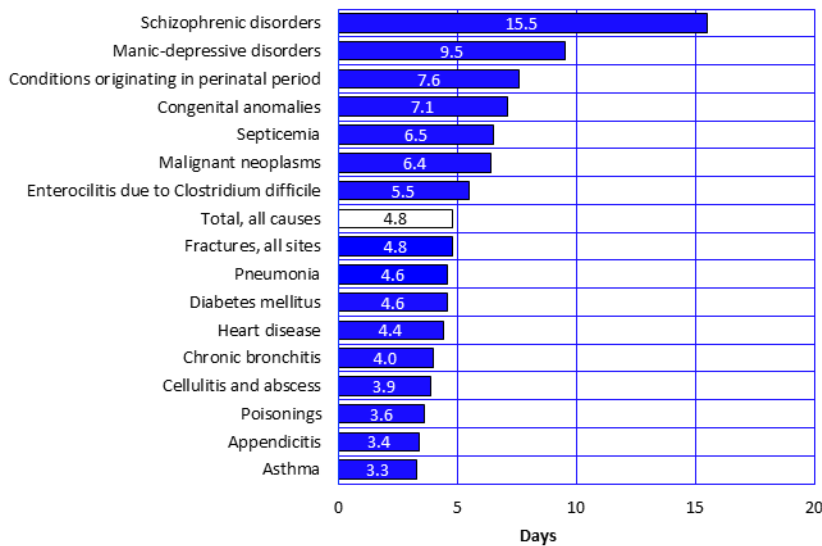


In 2015, there were 630,524 inpatients discharged, excluding newborn infants, from non-Federal short stay hospitals in Arizona (Table 4A-1). Patients who were elderly (65 years or older) accounted for 38.1 percent of hospital discharges (Figure 4A-1), followed by young adults (20-44 years old) who comprised 28.3 percent of discharges, and middle-aged adults 45-64 year olds (25.8 percent of all inpatient discharges).

Diseases of the circulatory system were the most common diagnoses (13.2 percent of all discharges), followed by diseases of the *digestive system* (9.7 percent), and *injury and poisoning* diagnoses (9.7 percent; percentages based on data in Table 4A-1).

Note: ^a Excluding newborn infants.

Figure 4A-2
Average Length of Hospital Stay for Discharges with Selected First-listed Diagnosis, Arizona Residents, 2015



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.

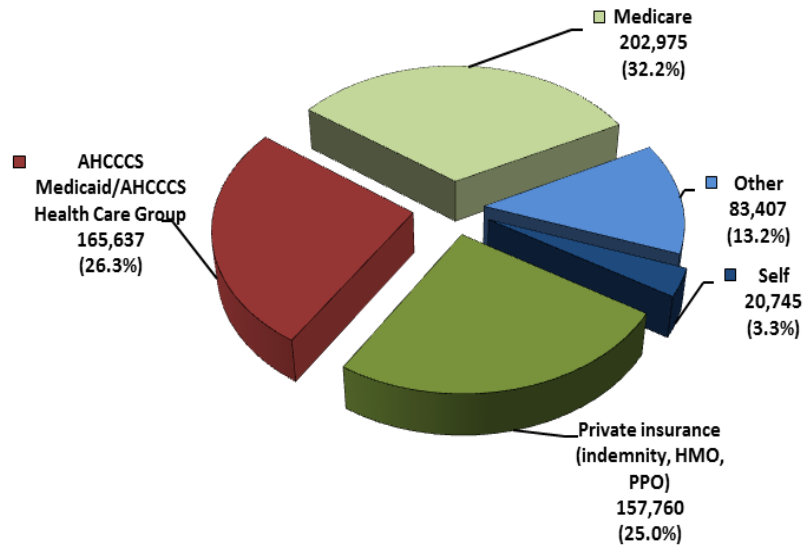
In 2015, the average length of hospital stay for Arizona inpatients was 4.8 days (Figure 4A-2, Table 4A-5). The percent of patients hospitalized for 3 days or less was 57.3 percent, with 15.6 percent of inpatients staying 8 days or more.

The average length of stay was 4.4 days for heart disease, 4.6 days for diabetes, 6.4 days for cancer, and 15.5 days for schizophrenic disorders.

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

Figure 4A-3
Hospital Inpatient Discharges by Payer, Arizona Residents, 2015

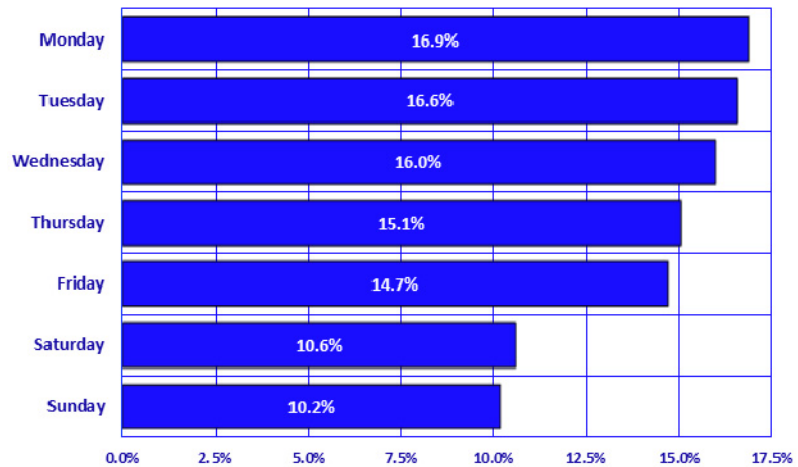
Medicare paid for 32.2 percent of all discharges (**Figure 4A-3**) and 82.5 percent of inpatient discharges of persons aged 65 years or older (**Table 4A-4**). The Arizona Health Care Cost Containment System (AHCCCS; the State's Medicaid Program) was the second most frequently recorded expected source of payment, accounting for 26.3 percent of inpatient discharges. Private insurance accounted for 25.0 percent of hospital inpatient discharges.



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

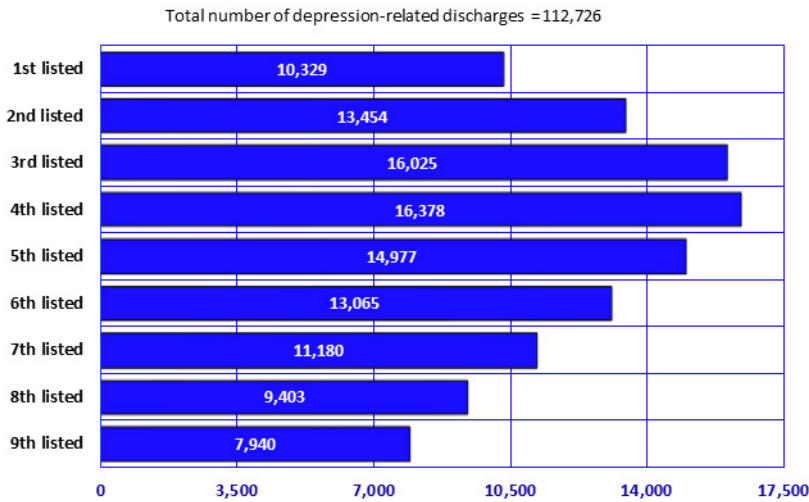
Figure 4A-4
Percent of Hospital Inpatient Admissions by Day of the Week, Arizona Residents, 2015

The rhythm of hospital births by day of the week (see **Figure 1B-14**) reveals that the daily average of resident live births in 2015 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, 2015



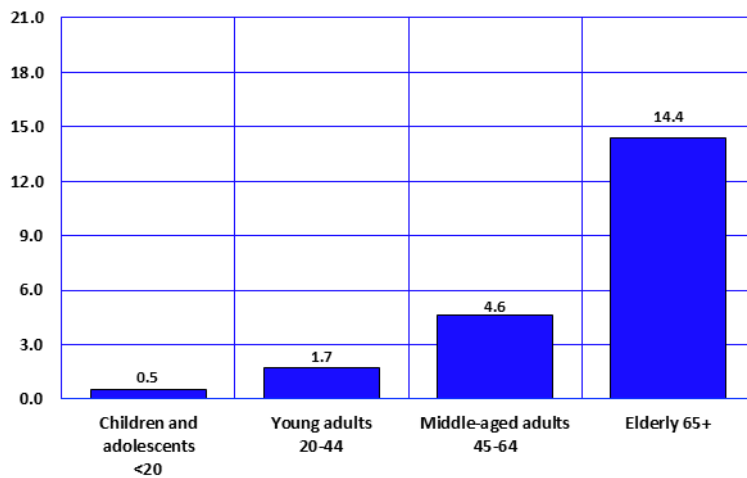
In 2015, *depression* accounted for 3,091 inpatient discharges and 7,238 emergency room visits as the first-listed diagnosis (for a total of 10,329 hospital encounters; **Figure 4A-5, Table 4A-1, Table 7C-1**).

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 112,726 inpatient discharge and emergency room records. In fact, the depression diagnosis was substantially more frequently present as 2nd – 7th 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, 2015



In 2015, 2,777 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 (14.4/10,000) was 3.1 times greater than the rate of middle-aged adults (**Figure 4A-6**).

In 2015, 176 Arizonans died from enterocolitis due to *Clostridium difficile*. Elderly 65 years or older accounted for 86.9 percent of these deaths (**Table 2C-27**).

**TABLE 4A-1 (CORRECTION)
NUMBER OF DISCHARGES^a BY FIRST-LISTED DIAGNOSIS AND AGE GROUP, ARIZONA, 2015**

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	630,524	30,168	19,214	178,650	162,550	239,937	5
Infectious and parasitic diseases	49,320	1,513	651	8,966	15,142	23,048	0
Septicemia	39,511	389	424	6,870	12,124	19,704	0
Enterocolitis due to <i>Clostridium difficile</i>	2,777	58	27	385	756	1,551	0
Neoplasms	22,215	389	158	2,629	8,434	10,605	0
Malignant neoplasms	17,467	298	118	1,425	6,490	9,136	0
Large intestine	2,310†	*	*	111	852	1,345	0
Prostate	1,346	0	0	9	646	691	0
Trachea bronchus and lung	2,120†	*	7	54	682	1,377	0
Breast	547	0	0	95	263	189	0
Benign neoplasms	3,676	51	29	1,077	1,603	916	0
Endocrine nutritional metabolic and immunity diseases	23,979	1,152	675	6,192	8,413	7,547	0
Diabetes mellitus	10,829	437	469	3,247	4,081	2,595	0
Volume depletion	402	56	6	42	79	219	0
Morbid obesity	2,636	0	11	1,240	1,123	262	0
Diseases of the blood and blood forming organs	6,185	662	191	1,312	1,556	2,464	0
Mental disorders	45,579	2,970	5,026	19,983	13,231	4,367	*
Psychoses	35,762	1,963	3,750	15,641	10,829	3,578	*
Alcoholic psychoses	4,000†	*	8	1,559	2,074	360	*
Drug psychoses	1,910†	*	122	1,222	451	112	0
Schizophrenic disorders	5,851	17	172	3,333	2,069	260	0
Manic-depressive disorders	22,648	1,994	3,679	9,217	6,054	1,704	0
Neurotic disorders	8,615	825	936	3,810	2,344	698	*
Anxiety states	432	36	46	139	103	108	0
Depression	3,091	251	489	1,365	764	222	0
Drug dependence	730†	*	77	477	143	24	0
Nondependent abuse of drugs	410†	*	30	221	110	40	*
Alcohol dependence syndrome	732	0	6	331	325	70	0
Diseases of the nervous system	15,127	1,585	558	3,457	4,148	5,379	0
Diseases of the eye and adnexa^b	538	87	11	141	142	157	0
Diseases of the ear and mastoid process^b	685	153	7	99	162	264	0
Diseases of the circulatory system	83,452	356	191	5,649	23,952	53,303	*
Heart disease	54,583	164	103	3,302	15,549	35,465	0
Acute myocardial infarction	11,580†	*	*	557	3,962	7,056	0
Coronary atherosclerosis	5,340†	0	*	171	1,923	3,248	0

**TABLE 4A-1 (continued)
NUMBER OF DISCHARGES^a BY FIRST-LISTED DIAGNOSIS AND AGE GROUP, ARIZONA, 2015**

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	560†	0	*	42	231	283	0
Cardiac dysrhythmias	12,590	62	25	655	3,093	8,755	0
Cardiac arrest	210†	*	*	22	66	112	0
Congestive heart failure	4,660†	25	*	255	1,092	3,281	0
Cerebrovascular disease	15,659	50	24	758	4,099	10,727	*
Diseases of the respiratory system	52,545	7,946	658	4,721	12,869	26,351	0
Acute bronchitis and bronchiolitis	3,570†	2,817	*	115	218	415	0
Pneumonia	15,834	1,833	170	1,371	3,431	9,029	0
Chronic bronchitis	7,380†	6	*	111	2,395	4,866	0
Asthma	6,890	1,567	125	926	1,948	2,324	0
Diseases of the digestive system	60,958	2,432	1,088	13,292	20,459	23,687	0
Appendicitis	3,152	830	275	945	692	410	0
Noninfectious enteritis and colitis	4,768	230	148	1,259	1,389	1,742	0
Diverticula of intestine	5,420†	0	*	689	1,868	2,855	0
Cholelithiasis	5,408	31	131	1,846	1,634	1,766	0
Diseases of the genitourinary system	28,119	1,211	400	5,440	7,844	13,224	0
Calculus of kidney and ureter	2,826	17	51	839	1,082	837	0
Diseases of the skin and subcutaneous tissue	14,947	1,067	294	4,111	4,983	4,492	0
Cellulitis and abscess	12,370	820	230	3,458	4,177	3,685	0
Diseases of the musculoskeletal system	45,235	554	354	3,756	16,492	24,079	0
Osteoarthritis and allied disorders	23,650†	0	*	415	8,512	14,713	0
Invertebral disc disorders	3,630†	*	13	722	1,609	1,282	0
Congenital anomalies	2,204	1,276	123	290	287	228	0
Conditions originating in perinatal period	2,150†	2,151	0	*	0	0	0
Symptoms signs and ill-defined conditions	14,782	1,580	377	2,570	4,471	5,784	0
Injury and poisoning	61,005	2,433	1,801	12,699	16,975	27,095	*
Fractures, all sites	20,769	736	520	3,617	4,210	11,686	0
Fracture of neck of femur	6,864	19	14	146	772	5,913	0
Poisonings	6,242	331	498	2,425	2,046	941	*

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; ^b Categories added due to implementation of ICD-10.

**TABLE 4A-2 (CORRECTION)
NUMBER OF DISCHARGES BY FIRST-LISTED DIAGNOSIS AND GENDER, ARIZONA, 2015**

Category of first-listed diagnosis	Total	Patient's gender		
		Male	Female	Unknown
All categories	630,524	268,950	361,565	9
Infectious and parasitic diseases	49,320	24,152	25,168	0
Septicemia	39,511	19,593	19,918	0
Enterocolitis due to <i>Clostridium difficile</i>	2,777	995	1,782	0
Neoplasms	22,215	10,723	11,492	0
Malignant neoplasms	17,467	9,262	8,205	0
Large intestine	2,310	1,217	1,093	0
Prostate	1,346	1,346	0	0
Trachea bronchus and lung	2,124	1,012	1,112	0
Breast	550†	*	544	0
Benign neoplasms	3,676	893	2,783	0
Endocrine nutritional metabolic and immunity diseases	23,979	11,290	12,688	*
Diabetes mellitus	10,829	6,193	4,635	*
Volume depletion	402	193	209	0
Morbid obesity	2,636	574	2,062	0
Diseases of the blood and blood forming organs	6,185	2,763	3,422	0
Mental disorders	45,579	23,314	22,264	*
Psychoses	35,762	18,486	17,275	*
Alcoholic psychoses	4,003	2,864	1,139	0
Drug psychoses	1,912	1,173	739	0
Schizophrenic disorders	5,851	3,621	2,230	0
Manic-depressive disorders	22,648	9,756	12,891	*
Neurotic disorders	8,615	4,527	4,088	0
Anxiety states	432	167	265	0
Depression	3,091	1,459	1,632	0
Drug dependence	725	442	283	0
Nondependent abuse of drugs	407	273	134	0
Alcohol dependence syndrome	732	502	230	0
Diseases of the nervous system	15,127	6,967	8,160	0
Diseases of the eye and adnexa ^b	538	243	295	0
Diseases of the ear and mastoid process ^b	685	297	388	0
Diseases of the circulatory system	83,452	46,893	36,559	0
Heart disease	54,583	31,577	23,006	0
Acute myocardial infarction	11,577	7,282	4,295	0
Coronary atherosclerosis	5,343	3,778	1,565	0

**TABLE 4A-2 (continued)
NUMBER OF DISCHARGES^a BY FIRST-LISTED DIAGNOSIS AND GENDER, ARIZONA, 2015**

Category of first-listed diagnosis	Total	Patient's gender		
		Male	Female	Unknown
Other ischemic heart disease	559	347	212	0
Cardiac dysrhythmias	12,590	6,656	5,934	0
Cardiac arrest	205	106	99	0
Congestive heart failure	4,657	2,615	2,042	0
Cerebrovascular disease	15,659	8,045	7,614	0
Diseases of the respiratory system	52,545	25,802	26,743	0
Acute bronchitis and bronchiolitis	3,569	1,932	1,637	0
Pneumonia	15,834	7,732	8,102	0
Chronic bronchitis	7,380	3,370	4,010	0
Asthma	6,890	2,944	3,946	0
Diseases of the digestive system	60,958	28,482	32,476	0
Appendicitis	3,152	1,735	1,417	0
Noninfectious enteritis and colitis	4,768	1,778	2,990	0
Diverticula of intestine	5,415	2,375	3,040	0
Cholelithiasis	5,408	2,023	3,385	0
Diseases of the genitourinary system	28,119	11,907	16,212	0
Calculus of kidney and ureter	2,826	1,437	1,389	0
Diseases of the skin and subcutaneous tissue	14,947	8,037	6,910	0
Cellulitis and abscess	12,370	6,681	5,689	0
Diseases of the musculoskeletal system	45,235	21,012	24,223	0
Osteoarthritis and allied disorders	23,645	10,092	13,553	0
Intervertebral disc disorders	3,630	1,846	1,784	0
Congenital anomalies	2,204	1,217	987	0
Conditions originating in perinatal period	2,152	1,244	907	*
Symptoms signs and ill-defined conditions	14,782	6,904	7,878	0
Injury and poisoning	61,005	30,986	30,013	6
Fractures, all sites	20,769	9,463	11,303	*
Fracture of neck of femur	6,864	2,315	4,549	0
Poisonings	6,242	2,780	3,462	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; ^b Categories added due to implementation of ICD-10.

**TABLE 4A-3 (CORRECTION)
NUMBER OF DISCHARGES^a BY FIRST-LISTED DIAGNOSIS AND RACE/ETHNICITY, ARIZONA, 2015**

Category of first-listed diagnosis	Total	Race/ethnicity						Refused /Unknown
		White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander		
Total	630,524	426,993	126,295	32,140	26,783	12,729	5,584	
Infectious and parasitic diseases	49,320	32,971	9,953	2,276	2,783	976	361	
Septicemia	39,511	26,584	7,856	1,702	2,341	743	285	
Enterocolitis due to <i>Clostridium difficile</i>	2,777	2,187	346	96	87	53	8	
Neoplasms	22,215	16,293	3,517	1,066	475	673	191	
Malignant neoplasms	17,467	13,212	2,543	676	356	538	142	
Large intestine	2,310	1,800	329	61	33	72	15	
Prostate	1,346	1,075	156	73	9	22	11	
Trachea bronchus and lung	2,124	1,772	165	84	23	73	7	
Breast	547	398	90	25	6	23	*	
Benign neoplasms	3,676	2,267	829	343	98	97	42	
Endocrine nutritional metabolic and immunity diseases	23,979	14,767	5,471	1,574	1,625	388	154	
Diabetes mellitus	10,829	5,974	2,882	786	994	128	65	
Volume depletion	400†	296	66	15	15	*	*	
Morbid obesity	2,636	1,797	559	208	29	28	15	
Diseases of the blood and blood forming organs	6,185	3,573	1,293	893	211	180	35	
Mental disorders	45,579	32,507	6,990	3,003	2,088	564	427	
Psychoses	35,762	25,680	5,419	2,371	1,539	442	311	
Alcoholic psychoses	4,003	2,952	507	104	392	16	32	
Drug psychoses	1,912	1,376	357	98	53	14	14	
Schizophrenic disorders	5,851	3,692	1,029	702	273	104	51	
Manic-depressive disorders	22,648	16,640	3,390	1,361	751	307	199	
Neurotic disorders	8,615	6,016	1,346	480	596	86	91	
Anxiety states	430†	321	70	11	18	*	9	
Depression	3,091	2,177	537	170	156	24	27	
Drug dependence	730†	565	111	18	19	*	8	
Nondependent abuse of drugs	410†	260	62	27	50	*	*	
Alcohol dependence syndrome	730†	524	61	20	122	*	*	
Diseases of the nervous system	15,127	10,396	2,792	896	658	239	146	
Diseases of the eye and adnexa ^b	538	351	115	28	25	9	10	
Diseases of the ear and mastoid process ^b	685	449	167	23	33	8	*	
Diseases of the circulatory system	83,452	63,406	11,604	4,247	2,158	1,368	669	
Heart disease	54,583	42,169	7,397	2,509	1,320	811	377	
Acute myocardial infarction	11,577	8,750	1,832	431	270	179	115	
Coronary atherosclerosis	5,343	4,174	729	176	141	86	37	

**TABLE 4A-3 (continued)
NUMBER OF DISCHARGES^a BY FIRST-LISTED DIAGNOSIS AND RACE/ETHNICITY, ARIZONA, 2015**

Category of first-listed diagnosis	Total	Race/ethnicity						Refused /Unknown
		White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander		
Other ischemic heart disease	559	394	104	27	21	11	*	
Cardiac dysrhythmias	12,590	10,405	1,355	354	250	148	78	
Cardiac arrest	210†	125	37	18	13	*	9	
Congestive heart failure	4,657	3,424	711	299	135	73	15	
Cerebrovascular disease	15,659	11,906	2,168	711	376	300	198	
Diseases of the respiratory system	52,545	37,395	8,925	2,644	2,358	875	348	
Acute bronchitis and bronchiolitis	3,569	1,580	1,319	209	347	78	36	
Pneumonia	15,834	11,476	2,552	631	806	283	86	
Chronic bronchitis	7,380	6,445	536	235	75	64	25	
Asthma	6,890	4,449	1,401	631	247	122	40	
Diseases of the digestive system	60,958	41,670	12,357	2,429	3,098	1,033	371	
Appendicitis	3,152	1,755	1,088	88	127	65	29	
Noninfectious enteritis and colitis	4,768	3,529	729	258	132	80	40	
Diverticula of intestine	5,415	4,134	894	190	114	58	25	
Cholelithiasis	5,408	3,153	1,637	169	310	96	43	
Diseases of the genitourinary system	28,119	19,001	5,905	1,366	1,214	490	143	
Calculus of kidney and ureter	2,826	2,079	557	72	44	55	19	
Diseases of the skin and subcutaneous tissue	14,947	10,303	2,784	587	1,028	152	93	
Cellulitis and abscess	12,370	8,612	2,277	444	853	119	65	
Diseases of the musculoskeletal system	45,235	36,324	4,991	1,546	1,121	876	377	
Osteoarthritis and allied disorders	23,645	19,942	2,068	623	327	510	175	
Invertebral disc disorders	3,630	2,938	407	114	63	61	47	
Congenital anomalies	2,204	1,248	651	104	115	63	23	
Conditions originating in perinatal period	2,152	970	799	105	157	66	55	
Symptoms signs and ill-defined conditions	14,782	10,228	2,743	829	607	256	119	
Injury and poisoning	61,005	43,590	9,968	2,621	3,257	1,013	556	
Fractures, all sites	20,769	15,640	3,108	597	968	273	183	
Fracture of neck of femur	6,864	5,897	647	77	133	72	38	
Poisonings	6,242	4,288	1,092	360	365	67	70	

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; ^b Categories added due to implementation of ICD-10.

**TABLE 4A-4
NUMBER OF DISCHARGES^a BY PRIMARY PAYER, GENDER, AGE GROUP, RACE/ETHNICITY,
AND MARITAL STATUS, ARIZONA, 2015**

Selected characteristics		Total	Self-pay	Private insurance (indemnity, HMO, PPO)	AHCCCS/Medicaid	Medicare	Other
Total		630,524	20,745	157,760	165,637	202,975	83,407
Gender	Male	268,950	9,996	58,973	62,235	98,168	39,578
	Female	361,565	10,746	98,787	103,397	104,806	43,829
	Unknown	10†	*	0	*	*	0
Age group	Children <15 years	30,168	1,425	9,799	17,423	33	1,488
	Adolescents 15-19 years	19,214	2,247	6,072	10,029	51	815
	Young adults 20-44 years	178,650	9,896	65,939	84,990	7,867	9,958
	Middle-aged adults 45-64 years	162,550	6,194	61,058	49,512	27,493	18,293
	Elderly 65+ years	239,937	979	14,892	3,682	167,531	52,853
	Unknown	10†	*	0	*	0	0
Race/ethnicity	White non-Hispanic	426,993	12,167	114,072	73,092	164,718	62,944
	Hispanic or Latino	126,295	5,947	26,945	60,705	20,096	12,602
	Black or African American	32,140	1,372	6,858	12,982	7,145	3,783
	American Indian or Alaska Native	26,783	683	3,382	14,015	6,740	1,963
	Asian or Pacific Islander	12,729	373	4,728	3,060	3,058	1,510
	Refused/Unknown	5,584	203	1,775	1,783	1,218	605
Patient's marital status	Single	231,152	12,361	53,167	108,888	35,848	20,888
	Married	266,023	5,820	89,310	35,462	98,326	37,105
	Separated	5,741	191	921	2,430	1,524	675
	Divorced	53,667	1,605	9,190	13,359	20,021	9,492
	Widowed	68,559	467	4,189	3,554	45,651	14,698
	Not Applicable	140†	*	9	126	0	0
	Unknown	5,246	300	974	1,818	1,605	549

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 (CORRECTION)
AVERAGE LENGTH OF STAY FOR DISCHARGES^a BY FIRST-LISTED DIAGNOSIS AND AGE GROUP, ARIZONA, 2015**

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	4.8	4.9	4.8	4.0	5.2	5.2	0.8
Infectious and parasitic diseases	6.2	4.8	4.6	5.7	6.6	6.3	0.0
Septicemia	6.5	8.8	5.0	6.0	6.9	6.4	0.0
Enterocolitis due to <i>Clostridium difficile</i>	5.5	4.7	3.1	4.9	5.2	5.8	0.0
Neoplasms	5.9	12.7	12.1	5.2	5.5	6.1	0.0
Malignant neoplasms	6.4	15.2	14.1	7.0	6.1	6.2	0.0
Large intestine	7.3	11.0	13.0	7.1	7.0	7.5	0.0
Prostate	2.0	0.0	0.0	1.6	1.8	2.3	0.0
Trachea bronchus and lung	6.4	3.5	5.3	5.7	6.4	6.5	0.0
Breast	2.7	0.0	0.0	2.3	2.6	2.9	0.0
Benign neoplasms	3.6	3.6	5.3	2.8	3.4	4.7	0.0
Endocrine nutritional metabolic and immunity diseases	4.0	3.8	3.1	3.2	4.1	4.5	0.0
Diabetes mellitus	4.6	2.5	2.3	3.6	5.1	6.0	0.0
Volume depletion	2.8	2.1	1.7	2.0	3.0	3.0	0.0
Morbid obesity	1.9	0.0	1.9	1.8	1.8	2.5	0.0
Diseases of the blood and blood forming organs	4.1	4.8	4.9	4.1	4.0	4.0	0.0
Mental disorders	9.3	8.6	8.5	8.9	9.7	11.9	1.0
Psychoses	9.8	9.3	9.0	9.3	10.0	12.3	1.0
Alcoholic psychoses	5.0	4.0	6.3	4.3	5.3	6.2	1.0
Drug psychoses	5.5	15.6	6.6	5.3	5.7	6.1	0.0
Schizophrenic disorders	15.5	25.1	15.8	14.7	15.9	20.2	0.0
Manic-depressive disorders	9.5	9.0	8.5	8.9	10.1	13.0	0.0
Neurotic disorders	6.4	6.7	6.7	6.1	6.3	7.6	1.0
Anxiety states	5.1	6.3	5.0	4.6	4.5	6.1	0.0
Depression	6.7	6.4	5.9	6.3	7.4	9.1	0.0
Drug dependence	6.3	17.5	12.2	5.4	6.3	4.4	0.0
Nondependent abuse of drugs	3.5	2.6	5.4	3.4	3.3	3.3	1.0
Alcohol dependence syndrome	6.0	0.0	6.8	5.1	6.2	9.5	0.0
Diseases of the nervous system	4.7	3.9	4.1	3.9	4.6	5.7	0.0
Diseases of the eye and adnexa^b	3.2	3.4	2.3	3.1	3.7	3.0	0.0
Diseases of the ear and mastoid process^b	2.8	2.7	2.3	3.0	2.7	3.0	0.0
Diseases of the circulatory system	4.4	8.7	4.4	4.3	4.4	4.4	0.0
Heart disease	4.4	8.8	3.4	4.0	4.3	4.4	0.0
Acute myocardial infarction	4.1	9.0	0.0	3.0	3.8	4.4	0.0
Coronary arteriosclerosis	4.4	0.0	1.0	3.9	4.1	4.7	0.0

TABLE 4A-5 (continued)
AVERAGE LENGTH OF STAY FOR DISCHARGES^a BY FIRST-LISTED DIAGNOSIS AND AGE GROUP, ARIZONA, 2015

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	3.0	0.0	4.3	2.5	3.2	3.0	0.0
Cardiac dysrhythmias	3.3	3.4	2.2	2.8	3.3	3.4	0.0
Cardiac arrest	2.5	3.3	0.0	2.0	3.0	2.3	0.0
Congestive heart failure	4.6	16.7	2.8	5.1	4.7	4.5	0.0
Cerebrovascular disease	4.2	13.3	4.8	5.4	4.8	3.9	0.0
Diseases of the respiratory system	5.2	3.4	4.4	4.6	5.6	5.6	0.0
Acute bronchitis and bronchiolitis	3.4	3.5	2.8	2.7	2.9	3.3	0.0
Pneumonia	4.6	3.4	4.6	4.0	4.6	4.9	0.0
Chronic bronchitis	4.0	5.3	4.0	3.8	3.8	4.1	0.0
Asthma	3.3	2.1	3.0	2.9	3.6	4.0	0.0
Diseases of the digestive system	4.3	4.1	3.7	3.6	4.4	4.7	0.0
Appendicitis	3.4	3.9	3.0	2.6	3.5	4.1	0.0
Noninfectious enteritis and colitis	4.1	3.2	5.0	3.6	4.3	4.3	0.0
Diverticula of intestine	4.4	0.0	5.7	3.9	4.3	4.6	0.0
Cholelithiasis	3.4	2.7	2.8	2.7	3.4	4.2	0.0
Diseases of the genitourinary system	3.8	3.4	3.0	2.9	3.6	4.2	0.0
Calculus of kidney and ureter	2.2	2.6	1.8	2.1	2.1	2.5	0.0
Diseases of the skin and subcutaneous tissue	4.4	2.4	2.8	3.8	4.6	5.4	0.0
Cellulitis and abscess	3.9	2.2	2.9	3.4	4.1	4.5	0.0
Diseases of the musculoskeletal system	3.1	4.1	4.4	3.6	2.9	3.1	0.0
Osteoarthritis and allied disorders	2.2	0.0	3.4	2.2	2.1	2.3	0.0
Invertebral disc disorders	2.8	1.3	3.4	2.3	2.7	3.1	0.0
Congenital anomalies	7.1	9.0	4.6	4.5	4.5	4.6	0.0
Conditions originating in perinatal period	7.6	7.6	0.0	1.0	0.0	0.0	0.0
Symptoms signs and ill-defined conditions	3.0	2.8	3.6	2.9	2.9	3.1	0.0
Injury and poisoning	5.2	4.3	4.1	4.8	5.4	5.4	1.0
Fractures, all sites	4.8	2.8	4.2	4.4	4.8	5.1	0.0
Fracture of neck of femur	5.0	2.6	3.7	4.6	4.9	5.0	0.0
Poisonings	3.6	2.3	2.7	3.5	4.1	4.1	1.0

Notes: ^a Excluding newborn infants; ^b Categories added due to implementation of ICD-10.



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. For comparability with the national data*, the rates of all-listed procedures are presented per 10,000 population.

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 - 2015 reports, we continue to analyze the top six procedures. Another reason is comparability with the previously published data for 2000-2007.

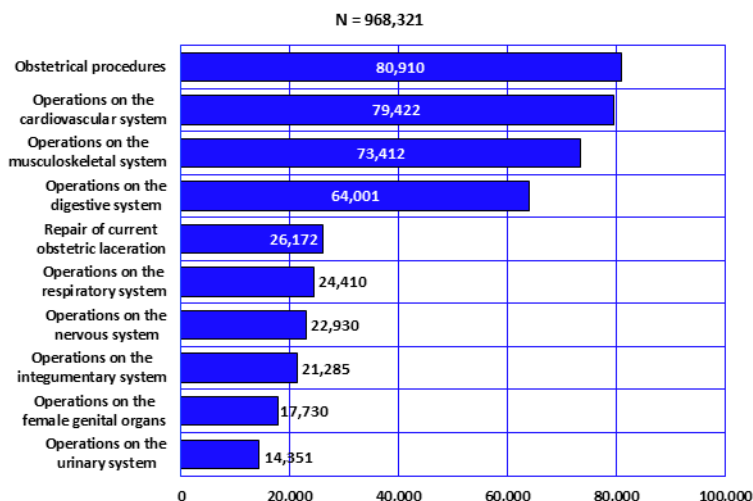
Beginning with the 2015 data year, all Arizona Hospitals transitioned to the International Classification of Diseases, 10th Revision, and Procedure Coding System (ICD-10-PCS) for coding inpatient procedures. ICD-10-PCS was implemented on October 1, 2015 in replacement of the International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM).

In the current report, procedure groupings and codes are based on ICD-9-CM (January-September) and ICD-10-PCS (October to December). ICD-10-PCS is structurally different and far more detailed with about 72,000 procedure codes than ICD-9-CM, which includes only 3,824 procedure codes. Due to the fundamental differences in coding systems, caution should be exercised in comparing 2015 hospital discharge data with data from previous years. Please refer to "The Implementation of the International Classification of Disease, Tenth Revision," Introduction page ix, for further explanation of ICD-10-CM transition.

*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

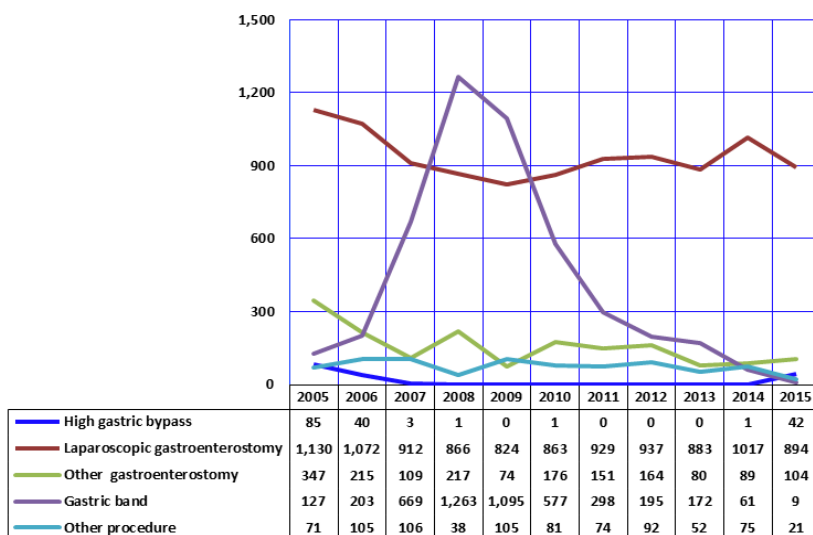
Figure 4B-1
Ten Leading Categories of All-listed Inpatient Procedures,
Arizona Residents, 2015



During 2015, 968,321 procedures were performed among the 630,524 total inpatient discharges to Arizona residents. The rate of procedures was 1432.8 per 10,000 population. For Arizona males, this rate was 1274.7/10,000, and for Arizona females it was 1588.8/10,000.

No specific procedure was recorded for approximately 38.6 percent of all inpatient discharges. Only 5.8 percent of inpatients had six procedures reported. Among the inpatient discharges which had one or more specific procedures recorded, the most frequent were by obstetrical procedures, followed by operations on the cardiovascular system, and operations on the musculoskeletal system (**Figure 4B-1, Table 4B1**).

Figure 4B-2
Trends in Types of Inpatient Procedures Performed in Treatment of Morbid Obesity, Arizona Residents, 2005-2015



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 2015, *morbid obesity* was the principal diagnosis for 1,890 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 42 in 2015, with fewer than 10 gastric bypass surgeries being completed between 2007-2014 (**Figure 4B-2**). In 2015, *laparoscopic gastroenterostomy* was the most popular procedure, with 894 surgeries 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, 2015**

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	968,321	66,673	22,430	269,971	259,843	349,393	11
Operations on the nervous system	22,930	3,314	842	6,653	5,618	6,503	0
Spinal tap	7,630	2,521	230	1,686	1,664	1,529	0
Operations on the endocrine system	1,266	41	21	302	489	413	0
Operations on the eye	716	91	35	242	162	186	0
Operations on the ear	523	132	22	128	115	126	0
Operation of nose, mouth, and throat	3,930	737	177	1,115	983	918	0
Operations on the respiratory system	24,410	1,114	354	3,199	7,611	12,130	*
Bronchoscopy with or without biopsy	8,978	336	101	1,282	3,008	4,251	0
Operations on the cardiovascular system	79,422	3,138	590	8,856	25,849	40,987	*
Removal of coronary artery obstruction	6,640†	*	*	306	2,647	3,681	0
Coronary artery bypass graft	3,340†	0	*	76	1,129	2,134	0
Cardiac catheterization	19,515	120	24	1,242	7,279	10,850	0
Insertion, replacement, removal, of pacemaker leads	3,977	28	9	120	654	3,166	0
Hemodialysis	14,316	38	36	2,037	5,689	6,516	0
Operations on the hemic and lymphatic system	7,824	345	122	1,020	2,834	3,503	0
Operations on the digestive system	64,001	2,360	969	13,163	21,811	25,697	*
Gastric band	10†	0	0	*	9	*	0
Endoscopy of small intestine with or without biopsy	16,225	234	202	2,809	5,463	7,517	0
Endoscopy of large intestine with or without biopsy	6,858	106	84	934	2,094	3,640	0
Partial excision of large intestine	3,298	69	29	408	1,116	1,676	0
Appendectomy, excluding incidental	3,718	848	292	1,148	870	560	0
Cholecystectomy	8,306	61	216	2,782	2,555	2,692	0
Lysis of peritoneal adhesions	5,874	132	36	1,356	2,101	2,249	0
Operations on the urinary system	14,351	328	157	2,949	4,772	6,145	0
Cystoscopy with or without biopsy	2,999	108	21	615	899	1,356	0
Operations on the male genital organs	9,142	6,454	27	324	1,005	1,332	0
Prostatectomy	1,794	0	0	12	740	1,042	0

**TABLE 4B-1 (continued)
NUMBER OF PROCEDURES BY CATEGORY AND AGE GROUP, ARIZONA, 2015**

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	17,730	77	692	13,297	2,530	1,134	0
Oophorectomy and salpingo-oophorectomy	3,081	8	10	983	1,459	621	0
Bilateral destruction/occlusion of fallopian tubes	4,310†	0	*	4,293	12	0	0
Hysterectomy	3,760†	0	*	1,519	1,729	507	0
Obstetrical procedures	80,910	37	5,635	75,111	127	0	0
Episiotomy with or w/o forceps or vacuum extraction	5,049	6	566	4,471	6	0	0
Artificial rupture of membranes	20,054	11	1,570	18,454	19	0	0
Cesarean section	22,750†	*	912	21,759	75	0	0
Repair of current obstetric laceration	26,172	27	2,533	23,504	65	43	0
Operations on the musculoskeletal system	73,412	1,317	1,110	11,701	24,076	35,208	0
Partial excision of bone	8,717	159	132	1,294	3,639	3,493	0
Reduction of fracture	10,456	397	290	2,046	2,545	5,178	0
Open reduction of fracture with internal fixation	7,712	211	240	1,688	2,055	3,518	0
Excision or destruction of intervertebral disc	6,545	8	20	1,076	3,089	2,352	0
Total hip replacement	8,090†	*	10	308	2,942	4,826	0
Total knee replacement	15,330†	*	0	222	5,734	9,368	0
Operations on the integumentary system	21,285	1,042	503	6,202	7,429	6,109	0
Debridement of wound, infection, or burn	7,772	243	141	2,157	2,990	2,241	0
Computerized axial tomography	1,386	84	27	218	447	610	0
Arterio- & angiocardiology using contrast material	23,014	140	57	1,609	8,241	12,967	0
Diagnostic ultrasound	9,283	276	76	1,047	2,678	5,206	0
Respiratory therapy	28,685	3,118	365	4,012	8,542	12,645	*
Insertion of endotracheal tube	17,688	1,988	228	2,777	5,407	7,285	*
Injection/infusion of cancer chemotherapy substance	2,815	691	208	482	761	673	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
NUMBER OF PROCEDURES BY CATEGORY AND GENDER, ARIZONA, 2015**

Procedures by category	Total	Patient's gender		
		Male	Female	Unknown
All procedures	968,321	427,987	540,302	32
Operations on the nervous system	22,930	10,353	12,576	*
Spinal tap	7,630	3,887	3,742	*
Operations on the endocrine system	1,266	490	776	0
Operations on the eye	716	486	229	*
Operations on the ear	523	331	191	*
Operation of nose, mouth, and throat	3,930	2,462	1,464	*
Operations on the respiratory system	24,410	13,250	11,159	*
Bronchoscopy with or without biopsy	8,978	4,812	4,165	*
Operations on the cardiovascular system	79,422	44,481	34,938	*
Removal of coronary artery obstruction	6,641	4,558	2,083	0
Coronary artery bypass graft	3,340	2,537	803	0
Cardiac catheterization	19,515	12,202	7,312	*
Insertion, replacement, removal, of pacemaker leads	3,977	2,132	1,845	0
Hemodialysis	14,316	7,831	6,485	0
Operations on the hemic and lymphatic system	7,824	4,127	3,697	0
Operations on the digestive system	64,001	29,831	34,170	0
Gastric band	10†	*	9	0
Endoscopy of small intestine with or without biopsy	16,225	7,778	8,447	0
Endoscopy of large intestine with or without biopsy	6,858	3,210	3,648	0
Partial excision of large intestine	3,298	1,528	1,770	0
Appendectomy, excluding incidental	3,718	1,936	1,782	0
Cholecystectomy	8,306	3,226	5,080	0
Lysis of peritoneal adhesions	5,874	1,995	3,879	0
Operations on the urinary system	14,351	7,434	6,917	0
Cystoscopy with or without biopsy	2,999	1,449	1,550	0
Operations on the male genital organs	9,142	9,038	102	*
Prostatectomy	1,794	1,794	0	0

**TABLE 4B-2 (continued)
NUMBER OF PROCEDURES BY CATEGORY AND GENDER, ARIZONA, 2015**

Procedures by category	Total	Patient's gender		
		Male	Female	Unknown
Operations on the female genital organs	17,730	184	17,546	0
Oophorectomy and salpingo-oophorectomy	3,080†	*	3,080	0
Bilateral destruction/occlusion of fallopian tubes	4,308	0	4,308	0
Hysterectomy	3,760†	*	3,755	0
Obstetrical procedures	80,910†	*	80,909	0
Episiotomy with or w/o forceps or vacuum extraction	5,049	0	5,049	0
Artificial rupture of membranes	20,050†	*	20,053	0
Cesarean section	22,750	0	22,750	0
Repair of current obstetric laceration	26,172	46	26,126	0
Operations on the musculoskeletal system	73,412	34,120	39,291	*
Partial excision of bone	8,717	4,833	3,883	*
Reduction of fracture	10,456	4,643	5,813	0
Open reduction of fracture with internal fixation	7,712	3,492	4,220	0
Excision or destruction of intervertebral disc	6,545	3,233	3,312	0
Total hip replacement	8,089	3,534	4,555	0
Total knee replacement	15,325	6,395	8,930	0
Operations on the integumentary system	21,285	11,604	9,680	*
Debridement of wound, infection, or burn	7,772	4,555	3,217	0
Computerized axial tomography	1,386	718	668	0
Arterio- & angiocardiology using contrast material	23,014	14,097	8,916	*
Diagnostic ultrasound	9,283	5,320	3,963	0
Respiratory therapy	28,685	16,049	12,632	*
Insertion of endotracheal tube	17,688	9,973	7,713	*
Injection/infusion of cancer chemotherapy substance	2,815	1,600	1,215	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, 2015**

Procedures by category	Total	Race/ethnicity					
		White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Refused /Unknown
All procedures	968,321	641,964	207,185	45,907	41,330	21,906	10,029
Operations on the nervous system	22,930	14,308	5,516	1,139	968	542	457
Spinal tap	7,630	4,370	2,143	505	382	172	58
Operations on the endocrine system	1,266	836	244	80	56	40	10
Operations on the eye	716	424	179	29	66	9	9
Operations on the ear	523	310	127	23	47	6	10
Operation of nose, mouth, and throat	3,930	2,508	834	227	249	75	37
Operations on the respiratory system	24,410	17,649	3,893	1,161	941	532	234
Bronchoscopy with or without biopsy	8,978	6,389	1,548	459	321	195	66
Operations on the cardiovascular system	79,422	55,790	13,287	4,109	4,055	1,491	690
Removal of coronary artery obstruction	6,641	5,107	985	225	164	95	65
Coronary artery bypass graft	3,340	2,641	455	74	63	76	31
Cardiac catheterization	19,515	14,611	2,976	878	541	327	182
Insertion, replacement, removal, of pacemaker leads	3,977	3,204	448	119	113	57	36
Hemodialysis	14,316	6,543	3,965	1,386	1,947	376	99
Operations on the hemic and lymphatic system	7,824	5,777	1,231	369	162	213	72
Operations on the digestive system	64,001	43,624	12,861	2,781	3,028	1,316	391
Gastric band	10+	12	*	0	0	0	0
Endoscopy of small intestine with or without biopsy	16,225	11,363	2,881	756	841	299	85
Endoscopy of large intestine with or without biopsy	6,858	5,004	1,063	336	296	124	35
Partial excision of large intestine	3,298	2,559	496	95	78	52	18
Appendectomy, excluding incidental	3,718	2,145	1,198	116	155	76	28
Cholecystectomy	8,306	4,966	2,399	258	503	122	58
Lysis of peritoneal adhesions	5,874	4,109	1,121	305	196	126	17
Operations on the urinary system	14,351	10,065	2,724	627	524	330	81
Cystoscopy with or without biopsy	2,999	2,163	537	134	73	69	23
Operations on the male genital organs	9,142	6,676	1,494	443	124	343	62
Prostatectomy	1,794	1,433	210	88	13	33	17

**TABLE 4B-3 (continued)
NUMBER OF PROCEDURES BY CATEGORY AND RACE/ETHNICITY, ARIZONA, 2015**

Procedures by category	Total	Race/ethnicity					
		White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Refused /Unknown
Operations on the female genital organs	17,730	8,913	6,321	1,124	622	549	201
Oophorectomy and salpingo-oophorectomy	3,081	2,027	684	184	72	90	24
Bilateral destruction/occlusion of fallopian tubes	4,308	1,760	1,972	207	152	156	61
Hysterectomy	3,756	2,223	1,024	308	81	95	25
Obstetrical procedures	80,910	38,057	30,888	4,739	2,952	2,975	1,299
Episiotomy with or w/o forceps or vacuum extraction	5,049	2,954	1,431	194	107	261	102
Artificial rupture of membranes	20,054	9,572	7,643	1,122	756	661	300
Cesarean section	22,750	10,950	8,143	1,481	799	1,015	362
Repair of current obstetric laceration	26,172	13,182	9,540	1,160	805	1,085	400
Operations on the musculoskeletal system	73,412	55,772	10,416	2,494	2,660	1,459	611
Partial excision of bone	8,717	6,498	1,294	322	378	140	85
Reduction of fracture	10,456	7,623	1,748	326	529	140	90
Open reduction of fracture with internal fixation	7,712	5,550	1,333	255	402	101	71
Excision or destruction of intervertebral disc	6,545	5,311	709	232	140	91	62
Total hip replacement	8,089	7,140	440	213	79	152	65
Total knee replacement	15,325	12,479	1,663	421	284	373	105
Operations on the integumentary system	21,285	13,821	4,367	1,062	1,505	354	176
Debridement of wound, infection, or burn	7,772	4,955	1,641	362	653	101	60
Computerized axial tomography	1,386	968	268	56	41	41	12
Arterio- & angiocardiography using contrast material	23,014	17,174	3,482	1,054	709	365	230
Diagnostic ultrasound	9,283	7,006	1,404	399	250	158	66
Respiratory therapy	28,685	19,582	4,904	1,578	1,736	490	395
Insertion of endotracheal tube	17,688	11,785	3,299	1,039	1,029	309	227
Injection/infusion of cancer chemotherapy substance	2,815	1,733	706	123	98	130	25

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, 2015**

Procedures by category	Total	Self-pay	Private insurance (indemnity, HMO, PPO)	AHCCCS/Medicaid	Medicare	Other
All procedures	968,321	19,425	272,764	259,094	289,675	127,363
Operations on the nervous system	22,930	351	7,091	7,375	5,345	2,768
Spinal tap	7,630	158	2,282	3,071	1,415	704
Operations on the endocrine system	1,266	18	500	264	340	144
Operations on the eye	716	34	167	284	155	76
Operations on the ear	523	12	133	209	109	60
Operation of nose, mouth, and throat	3,930	141	1,142	1,456	811	380
Operations on the respiratory system	24,410	329	4,902	5,130	10,205	3,844
Bronchoscopy with or without biopsy	8,978	108	1,725	1,928	3,804	1,413
Operations on the cardiovascular system	79,422	1,019	15,137	14,867	35,359	13,040
Removal of coronary artery obstruction	6,641	184	1,669	878	2,814	1,096
Coronary artery bypass graft	3,340	31	758	379	1,603	569
Cardiac catheterization	19,515	442	4,380	2,897	8,619	3,177
Insertion, replacement, removal, of pacemaker leads	3,977	20	491	284	2,339	843
Hemodialysis	14,316	87	1,489	2,379	8,465	1,896
Operations on the hemic and lymphatic system	7,824	65	2,552	1,342	2,726	1,139
Operations on the digestive system	64,001	1,250	16,970	15,539	21,317	8,925
Gastric band	10†	*	*	*	*	*
Endoscopy of small intestine with or without biopsy	16,225	292	3,259	3,847	6,211	2,616
Endoscopy of large intestine with or without biopsy	6,858	112	1,402	1,293	2,872	1,179
Partial excision of large intestine	3,298	47	920	542	1,318	471
Appendectomy, excluding incidental	3,718	164	1,548	1,299	455	252
Cholecystectomy	8,306	287	2,478	2,484	2,147	910
Lysis of peritoneal adhesions	5,874	68	1,857	1,325	1,828	796
Operations on the urinary system	14,351	238	3,924	2,922	5,353	1,914
Cystoscopy with or without biopsy	2,999	51	825	594	1,131	398
Operations on the male genital organs	9,142	225	5,471	1,773	966	707
Prostatectomy	1,794	10	648	123	707	306

**TABLE 4B-4 (continued)
NUMBER OF PROCEDURES BY CATEGORY AND EXPECTED SOURCE OF PAYMENT, ARIZONA, 2015**

Procedures by category	Total	Self-pay	Private insurance (indemnity, HMO, PPO)	AHCCCS/Medicaid	Medicare	Other
Operations on the female genital organs	17,730	389	7,550	7,949	1,004	838
Oophorectomy and salpingo-oophorectomy	3,081	50	1,480	792	499	260
Bilateral destruction/occlusion of fallopian tubes	4,308	81	1,565	2,517	48	97
Hysterectomy	3,756	40	1,922	1,106	428	260
Obstetrical procedures	80,910	2,143	35,042	40,673	347	2,705
Episiotomy with or w/o forceps or vacuum extraction	5,049	172	2,748	1,923	24	182
Artificial rupture of membranes	20,054	469	8,593	10,115	81	796
Cesarean section	22,750	555	10,607	10,731	132	725
Repair of current obstetric laceration	26,172	770	12,745	11,607	105	945
Operations on the musculoskeletal system	73,412	939	19,854	12,351	27,479	12,789
Partial excision of bone	8,717	79	2,414	1,549	3,142	1,533
Reduction of fracture	10,456	266	2,236	2,121	3,943	1,890
Open reduction of fracture with internal fixation	7,712	222	1,763	1,654	2,706	1,367
Excision or destruction of intervertebral disc	6,545	31	2,431	931	1,965	1,187
Total hip replacement	8,089	38	2,509	556	3,530	1,456
Total knee replacement	15,325	54	4,436	1,180	6,724	2,931
Operations on the integumentary system	21,285	628	4,984	6,983	5,937	2,753
Debridement of wound, infection, or burn	7,772	194	1,646	2,555	2,306	1,071
Computerized axial tomography	1,386	32	381	279	452	242
Arterio- & angiocardiology using contrast material	23,014	492	5,006	3,471	10,200	3,845
Diagnostic ultrasound	9,283	96	1,951	1,560	4,124	1,552
Respiratory therapy	28,685	576	4,986	7,814	11,006	4,303
Insertion of endotracheal tube	17,688	406	3,104	5,179	6,481	2,518
Injection/infusion of cancer chemotherapy substance	2,815	14	1,277	741	528	255

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

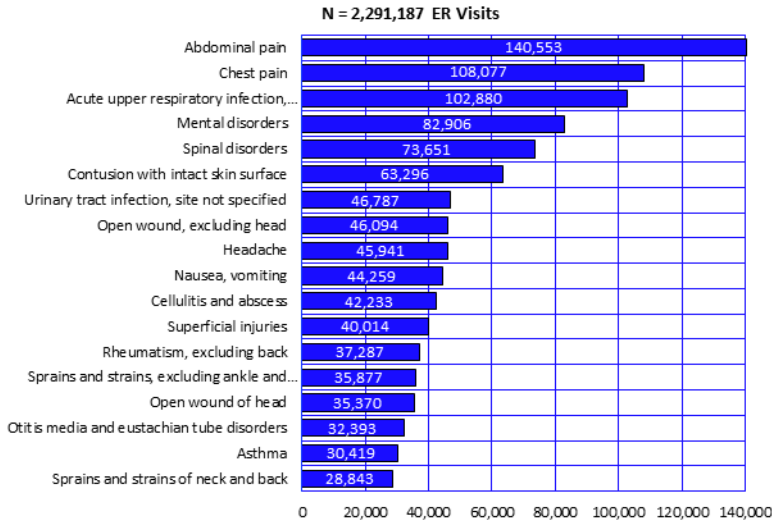
The data in this section are focused on ambulatory care visits to emergency rooms of non-Federal, short-stay hospitals. The emergency room (ER) and the inpatient hospitalization data are mutually exclusive. The ER data include only those who were not admitted as inpatients.

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. In the current report, diagnostic groupings and code numbers are based on the International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) (January to September), and the International Classification of Diseases and Related Problems, 10th Revision, Clinical Modification (ICD-10-CM) (October to December). Please refer to "The Implementation of the International Classification of Disease, Tenth Revision," Introduction page ix, for further explanation of ICD-10-CM transition.

*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, 2015



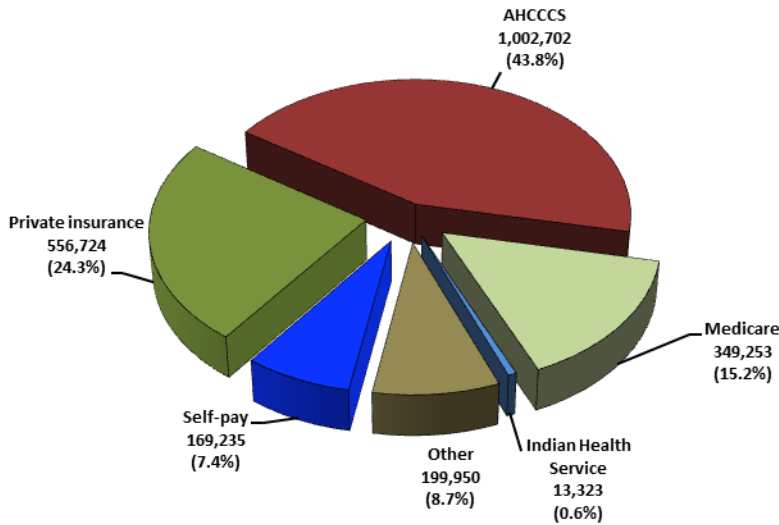
During 2015, more than 2.0 million visits were made by Arizona residents to hospital emergency rooms (ER), about 33.9 visits per 100 persons. The utilization rates vary by geographic region, with the Western United States having the lowest ER visit rate.

In 2015, *abdominal pain, chest pain, acute upper respiratory infection, mental disorders, spinal disorders, contusion with intact skin surface, and urinary tract infection* were the leading diagnostic categories, accounting for 26.9 percent of all visits (**Figure 4C-1, Table 4C-2**).

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

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

Figure 4C-2
Emergency Room Visits by Payer, Arizona Residents, 2015



The Arizona Health Care Cost Containment System (AHCCCS, the State's Medicaid program) was the most frequently recorded expected source of payment, accounting for 43.8 percent of ER visits (**Figure 4C-3**). Private insurance was the second most frequent payer (24.3 percent of ER visits), followed by Medicare (15.2 percent), and self-pay patients (7.4 percent).

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

**TABLE 4C-1 (CORRECTION)
NUMBER OF EMERGENCY ROOM VISITS^a BY FIRST-LISTED DIAGNOSIS AND AGE GROUP, ARIZONA, 2015**

Category of first-listed diagnosis	All Ages	Age group					Unknown
		Children <15 years	Adolescents 15-19 years	Young adults 20-44 years	Middle-aged adults 45-64 years	Elderly 65+ years	
Total, all causes	2,291,187	430,401	137,798	857,704	494,873	370,374	37
Infectious and parasitic diseases	50,802	23,687	3,445	14,152	5,726	3,792	0
Neoplasms	4,053	205	72	1,109	1,369	1,298	0
Endocrine nutritional metabolic and immunity diseases	43,069	2,927	1,576	14,066	13,745	10,754	*
Diabetes mellitus	13,831	533	419	4,301	5,414	3,164	0
Mental disorders	82,906	3,116	6,646	42,403	23,438	7,290	13
Psychoses	26,495	542	1,565	13,205	7,857	3,323	*
Alcoholic psychoses	3,590†	*	43	1,985	1,423	135	0
Drug psychoses	3,231	12	142	2,008	868	201	0
Schizophrenic disorders	1,540†	*	44	947	495	55	0
Manic-depressive disorders	5,225	410	700	2,327	1,417	371	0
Neurotic disorders	65,425	2,744	5,767	33,900	18,499	4,503	12
Anxiety states	19,385	493	1,459	10,889	4,687	1,856	*
Depression	7,238	560	1,161	3,070	1,905	542	0
Drug dependence	1,580†	*	64	1,021	401	92	0
Nondependent abuse of drugs	18,450	169	1,399	10,585	5,581	709	7
Alcohol dependence syndrome	4,750	9	83	2,049	2,324	282	*
Diseases of the nervous system	118,069	31,107	5,769	44,281	25,032	11,879	*
Diseases of the eye and adnexa^b	19,763	5,975	1,009	6,322	3,895	2,562	0
Diseases of the ear and mastoid process^b	48,742	29,607	2,039	9,715	4,531	2,850	0
Diseases of the circulatory system	67,034	680	643	11,244	21,734	32,728	*
Diseases of the respiratory system	230,397	97,427	13,186	62,454	33,424	23,906	0
Acute bronchitis and bronchiolitis	29,853	11,414	1,020	8,884	5,146	3,389	0
Pneumonia	23,851	8,621	1,042	5,335	4,587	4,266	0
Chronic bronchitis	9,393	19	7	455	3,994	4,918	0
Asthma	30,419	10,609	1,968	9,009	5,793	3,040	0
Diseases of the digestive system	152,088	23,757	7,482	64,326	33,538	22,982	*
Diseases of the genitourinary system	141,071	11,768	10,436	68,101	27,406	23,360	0
Diseases of the skin and subcutaneous tissue	79,421	15,785	4,922	32,744	17,016	8,954	0
Diseases of the musculoskeletal system	165,433	8,505	6,829	66,785	51,578	31,736	0
Symptoms signs and ill-defined conditions	566,396	87,218	29,340	203,315	139,019	107,497	7
Injury and poisoning	451,073	101,704	35,525	153,043	87,169	73,626	6
Fractures, all sites	63,260	14,631	4,181	16,522	13,507	14,418	*
Sprains	78,312	8,929	7,780	36,193	17,457	7,952	*
Intracranial	12,213	3,224	1,781	3,665	1,761	1,782	0
Open wounds	84,749	23,181	5,851	27,876	13,997	13,843	*
Superficial injuries	40,014	10,629	2,932	12,944	7,304	6,205	0
Contusions with intact skin surface	63,296	12,371	4,770	21,136	12,448	12,571	0
Foreign bodies	9,857	4,326	368	2,446	1,543	1,174	0
Burns and corrosions	2,877	756	216	1,189	510	206	0
Trauma complications and unspecified injuries	39,052	12,799	2,968	10,032	5,816	7,436	*
Poisonings	19,845	4,510	2,129	7,325	3,992	1,887	*
Surgical and medical complications	12,969	944	310	3,223	3,732	4,760	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; ^b Categories added due to implementation of ICD-10.

**TABLE 4C-2 (CORRECTION)
NUMBER OF EMERGENCY ROOM VISITS FOR THE LEADING DIAGNOSIS GROUPS^a AND AGE GROUP, ARIZONA, 2015**

Primary diagnosis group	All Ages	Age group					Unknown
		Children <15 years	Adolescents 15-19 years	Young adults 20-44 years	Middle-aged adults 45-64 years	Elderly 65+ years	
Total, all causes	2,291,187	430,401	137,798	857,704	494,873	370,374	37
Abdominal pain	140,553	15,094	10,387	69,260	31,410	14,402	0
Chest pain	108,077	2,449	3,492	35,964	40,548	25,623	*
Acute upper respiratory infection, excluding pharyngitis	102,880	58,386	4,697	23,847	10,201	5,749	0
Mental disorders	82,906	3,116	6,646	42,403	23,438	7,290	13
Spinal disorders	73,651	1,856	2,479	33,034	23,547	12,735	0
Contusion with intact skin surface	63,296	12,371	4,770	21,136	12,448	12,571	0
Urinary tract infection, site not specified	46,787	6,649	3,066	17,104	8,424	11,544	0
Open wound, excluding head	46,094	7,001	3,812	18,834	9,238	7,208	*
Headache	45,941	4,011	3,351	23,348	10,907	4,323	*
Nausea, vomiting	44,259	16,134	2,513	14,615	6,412	4,584	*
Cellulitis and abscess	42,233	4,814	1,958	19,072	10,703	5,686	0
Superficial injuries	40,014	10,629	2,932	12,944	7,304	6,205	0
Rheumatism, excluding back	37,287	2,590	1,390	14,565	11,451	7,291	0
Sprains and strains, excluding ankle and back	35,877	5,130	3,554	14,852	8,140	4,201	0
Open wound of head	35,370	14,718	2,025	8,192	4,371	6,064	0
Otitis media and eustachian tube disorders	32,393	25,593	1,122	4,125	1,156	397	0
Asthma	30,419	10,609	1,968	9,009	5,793	3,040	0
Sprains and strains of neck and back	28,843	1,229	2,022	15,484	7,255	2,853	0
Fever	24,056	19,205	635	2,085	1,091	1,039	*
Pneumonia	23,851	8,621	1,042	5,335	4,587	4,266	0
Gastroenteritis and colitis	22,647	7,361	1,207	7,705	3,739	2,632	*
Chronic and unspecified bronchitis	22,244	1,873	646	5,641	7,082	7,002	0
Acute pharyngitis	21,678	7,666	2,743	8,795	1,788	686	0
Heart disease, excluding ischemic	21,590	266	200	2,788	6,277	12,054	*
Migraine	19,230	845	1,306	11,588	4,856	635	0
Unspecified viral and chlamydial infection	10,001	6,032	666	2,308	682	313	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 Based on first-listed diagnosis.



4D.

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

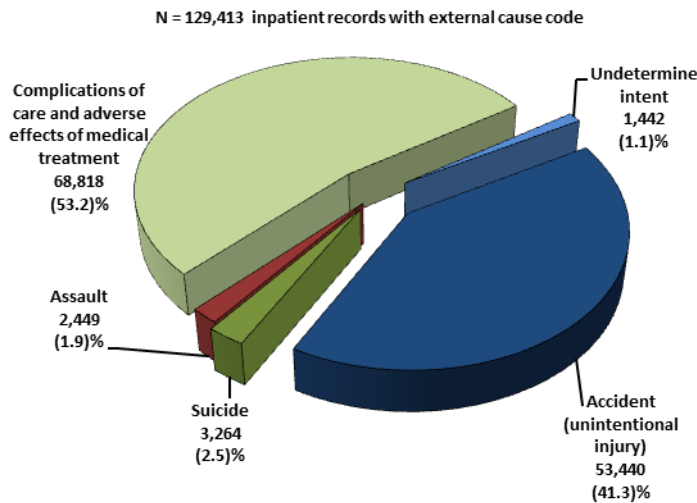
Prior to 2009, injury hospitalizations and injury-related emergency room visits were defined here through the range of ICD-9-CM codes 800-999 used as the first-listed diagnosis. In addition, the supplementary classification of external causes of injury and poisoning (ICD-9-CM codes E800–E999) is used 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 hospitals 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.

For 2015 data year, injury hospitalizations and injury-related emergency room visits data were recorded using ICD-9-CM in the first three quarters of the year and ICD-10 in the last quarter (Oct-Dec). Under ICD-10, external causes of morbidity capture how and where the injury or health condition occurred, the intent or mechanism (accidental or intentional), the activity of the patient at the time of the event and the patient’s status (for example civilian, student). Please refer to “The Implementation of the International Classification of Disease, Tenth Revision,” Introduction page ix, for further explanation of ICD-10-CM transition.

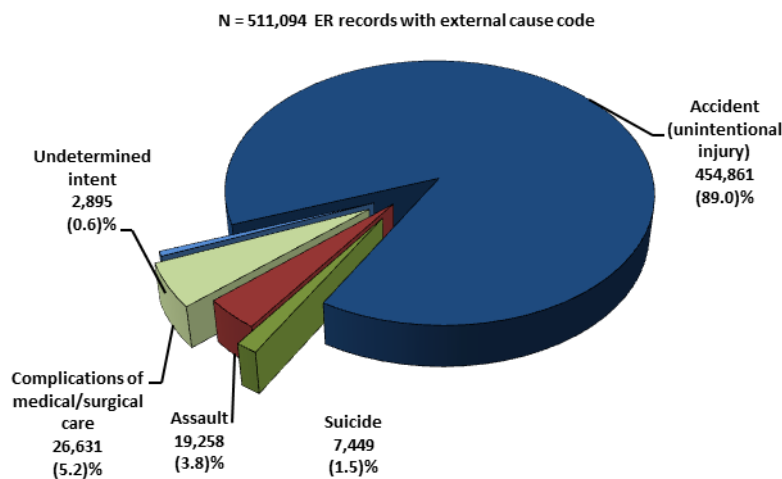
4D. INJURY-RELATED INPATIENT DISCHARGES AND EMERGENCY ROOM VISITS BY INTENT AND MECHANISM OF INJURY

Figure 4D-1
Percent Distribution of Inpatient Discharges by Intent of Injury,
Arizona Residents, 2015



In 2015, injury was indicated as the principal diagnosis on 61,005 inpatient discharge records (**Table 4A-1**). However, the external causes of injury (ICD-9)/external causes of morbidity (ICD-10) 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* accounted for the absolute majority of inpatient hospitalizations by the intent of injury (53.2 percent). *Unintentional injuries in accidents* accounted for 41.3 percent of all inpatient discharges by intent of injury. *Self-inflicted injuries in suicide* resulted in 3,264 inpatient hospitalizations (2.5 percent). *Assault* accounted for 2,449 inpatient hospitalizations (1.9 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, 2015



In 2015, there were 511,094 emergency room visits with known intent of injury among Arizona residents. *Unintentional injuries or accidents* accounted for nine out of ten (454,861 or 89.0 percent) of all injury-related emergency room visits (**Figure 4D-3, Table 4D-2**). The external cause of injury was classified as *assault* for 19,258 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* (5.2 percent vs. 1.5 percent, respectively, **Figure 4D-3, Table 4D-2**).

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

Figure 4D-3
Suicide-related Inpatient Discharges by Year,
Arizona Residents, 2005 – 2015

Beginning in 2008, there was a substantial increase in the number of suicide-related inpatient discharges and emergency room visits (**Figure 4D-3** and **Table 4D-2**). It was only partly due to the change in the reporting requirements for hospitals. In 2015, *injury or poisoning* was the principal diagnosis on 2,476 inpatient discharge records, which also included the external cause codes for suicide. *Mental disorders* were identified as the principal diagnosis on the additional 606 suicide-related records. For the additional 182 inpatient discharges mentioning suicide attempt, the principal diagnosis was classified as *chronic disease, infectious disease, or ill-defined conditions*.

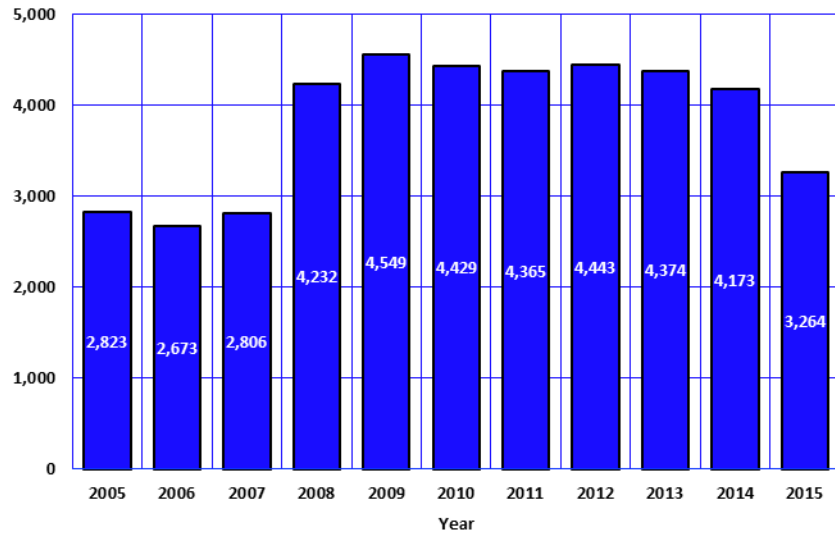
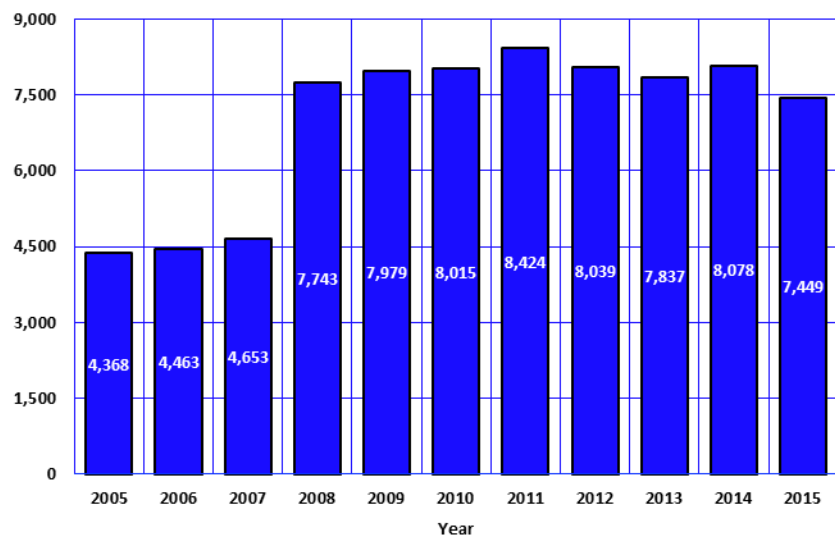


Figure 4D-4
Suicide-related Emergency Room Visits by Year,
Arizona Residents, 2005 – 2015

Injury or poisoning was the principal diagnosis on 5,312 ER discharge records, which also included the external cause codes for suicide. *Mental disorders* were identified as the principal diagnosis on 1,335 suicide-related records. For the additional 802 ER discharges mentioning suicide attempt, the principal diagnosis was classified as *chronic disease, infectious disease, or ill-defined conditions*.



**TABLE 4D-1
INPATIENT DISCHARGES BY INTENT AND MECHANISM FOR SELECTED EXTERNAL CAUSES BY GENDER, AGE GROUP, AND
RACE/ETHNICITY, ARIZONA, 2015**

	Total ^f	Gender		Age group						Race/ethnicity						
		Male	Female	Unknown	Children < 15 years	Adolescents 15-19 years	Young adults 20-44 years	Middle-aged adults 45-64 years	Elderly 65+ years	Unknown	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Refused/Unknown
UNINTENTIONAL INJURY OR ACCIDENT^a	53,440	26,789	26,646	*	1,973	1,218	9,340	13,082	27,825	*	39,579	8,200	1,750	2,663	757	491
Fall	27,510	11,570	15,940	0	556	169	1,873	5,293	19,619	0	22,030	3,304	597	986	373	220
Transport accidents	6,628	4,171	2,453	*	310	534	2,669	1,812	1,302	*	4,142	1,464	330	484	118	90
Natural and environmental factors	2,819	1,549	1,270	0	261	66	718	892	881	*	1,906	535	123	198	25	32
Exposure to excessive natural heat	390 [†]	306	85	0	*	10	121	147	107	*	235	93	31	24	*	*
Fire and flames	437	280	157	0	73	11	145	127	81	0	233	117	21	47	12	7
Machinery	230 [†]	206	20	0	*	9	102	81	33	0	119	81	12	8	*	*
SUICIDE^b	3,264	1,452	1,812	0	154	394	1,625	852	239	0	2,194	571	180	257	32	30
ASSAULT^c	2,449	1,943	505	*	103	162	1,539	551	93	*	913	641	281	546	30	38
INJURIES OF UNDETERMINED INTENT^d	1,442	753	689	0	46	44	474	465	413	0	943	303	85	76	9	26
COMPLICATIONS OF CARE AND ADVERSE EFFECTS OF MEDICAL TREATMENT^e	68,818	34,322	34,495	*	1,559	694	9,328	22,647	34,590	0	50,458	10,542	3,230	2,482	1,601	505
Misadventures to patients	1,275	585	690	0	17	12	199	404	643	0	949	192	49	42	30	13
Surgical and medical procedures as the cause of adverse reaction	39,081	20,667	18,414	0	1,027	380	5,558	13,572	18,544	0	28,145	6,210	1,895	1,667	873	291

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

ICD-9 / ICD-10

^a First-listed external cause codes E800-E869, E880-E929 / V00-X58.

^b First-listed external cause codes E950-E959 / X71-X83.

^c First-listed external cause codes E960-E969 / X92-Y08 .

^d First-listed external cause codes E890-E989 / Y21-Y33.

^e First-listed external cause codes E870-E879, E930-E949 / Y62-Y84.

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

**TABLE 4D-2
EMERGENCY ROOM VISITS BY INTENT AND MECHANISM FOR SELECTED EXTERNAL CAUSES BY GENDER, AGE GROUP, AND RACE/ETHNICITY, ARIZONA, 2015**

	Total ^f	Gender		Age group						Race/ethnicity						
		Male	Female	Unknown	Children < 15 years	Adolescents 15-19 years	Young adults 20-44 years	Middle-aged adults 45-64 years	Elderly 65+ years	Unknown	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Refused/Unknown
UNINTENTIONAL INJURY OR ACCIDENT^a	454,861	227,935	226,917	9	102,231	33,854	151,067	89,531	78,172	6	274,227	122,805	28,147	19,724	6,486	3,472
Fall	156,185	69,129	87,055	*	39,843	6,597	30,254	31,091	48,400	0	103,125	36,805	6,908	6,325	1,984	1,038
Transport accidents	58,654	27,351	31,298	*	5,855	6,688	29,251	12,330	4,529	*	31,570	17,684	5,458	2,116	1,203	623
Struck against or struck accidentally by objects or persons	50,414	29,977	20,436	*	17,396	6,327	16,027	6,547	4,117	0	28,743	14,867	3,552	2,198	671	383
Overexertion	30,077	15,147	14,930	0	3,837	2,918	14,001	6,496	2,824	*	17,619	8,282	2,117	1,430	390	239
Cutting or piercing instruments or objects	26,323	16,785	9,538	0	4,177	2,211	11,848	5,372	2,715	0	15,780	7,450	1,386	1,085	389	233
Natural and environmental factors	38,488	18,868	19,620	0	10,057	2,607	13,664	7,938	4,222	0	21,594	11,458	2,562	2,003	606	265
Exposure to excessive natural heat	1,697	1,178	519	0	98	124	794	449	232	0	1,025	475	101	72	20	*
Fire and flames	3,244	1,750	1,493	*	773	239	1,358	641	233	0	1,722	1,017	221	165	71	48
Machinery	1,690	1,436	254	0	83	82	710	535	280	0	1,067	479	51	55	22	16
Pedal cycle, nontraffic and other	6,937	5,089	1,847	*	2,032	648	2,271	1,568	418	0	4,573	1,611	290	291	102	70
Motor vehicle, nontraffic	1,456	936	520	0	228	192	681	265	90	0	952	352	61	67	10	14
Firearm missile	710 [†]	617	90	0	108	108	367	79	44	*	334	272	58	36	*	*
Drowning/submersion	240 [†]	135	106	0	165	13	41	15	7	0	155	70	6	*	*	*
SUICIDE^b	7,449	2,954	4,494	*	685	1,636	3,675	1,277	176	0	4,886	1,521	476	417	95	54
ASSAULT^c	19,258	11,529	7,727	*	929	1,986	12,519	3,457	366	*	8,567	5,488	2,107	2,723	193	180
INJURIES OF UNDETERMINED INTENT^d	2,895	1,580	1,314	*	394	268	1,380	612	240	*	1,817	681	181	170	26	20
COMPLICATIONS OF CARE AND ADVERSE EFFECTS OF MEDICAL TREATMENT^e	26,631	12,244	14,387	0	2,031	862	7,494	7,503	8,741	0	17,918	5,702	1,471	956	447	137
Misadventures to patients	180 [†]	80	98	0	*	7	54	51	63	0	109	44	11	12	*	0
Surgical and medical procedures as the cause of adverse reaction	15,225	7,903	7,322	0	1,062	389	4,073	4,456	5,245	0	10,295	3,201	813	589	251	76

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

ICD-9 / ICD-10

^a First-listed external cause codes E800-E869, E880-E929 / V00-X58.

^b First-listed external cause codes E950-E959 / X71-X83.

^c First-listed external cause codes E960-E969 / X92-Y08.

^d First-listed external cause codes E890-E989 / Y21-Y33.

^e First-listed external cause codes E870-E879, E930-E949 / Y62-Y84.

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