

# **CHAPTER 4**

## **HOSPITAL INPATIENT DISCHARGES AND EMERGENCY ROOM VISITS:**

### **2017 STATUS**

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- 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**

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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.

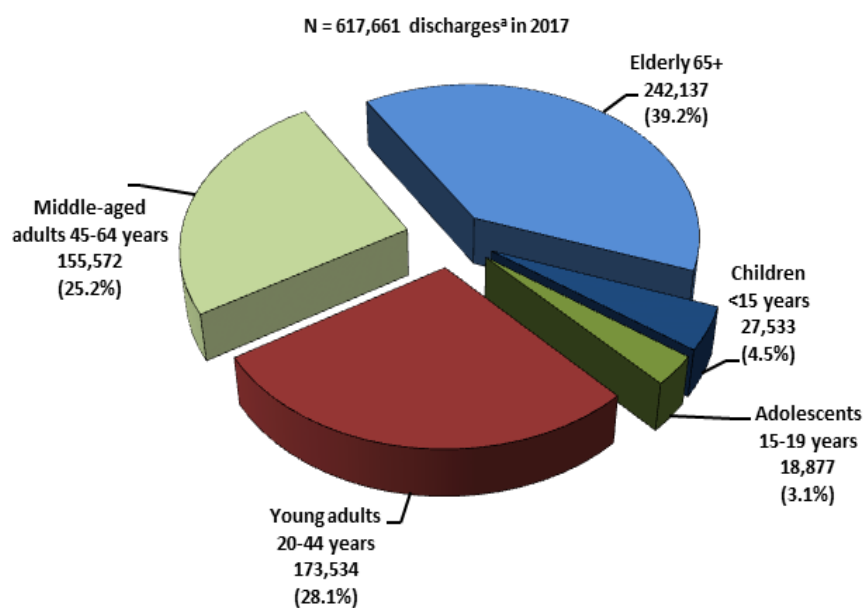
Beginning in 2016, diagnostic groupings and code numbers are based solely on the International Classification of Diseases and Related Problems, 10th Revision, Clinical Modification (ICD-10-CM). ICD-10-CM incorporates greater details about medical diagnosis and represents a substantial increase in number of diagnostic codes, with more than 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 2016 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<sup>a</sup> by Age Group, Arizona Residents, 2017

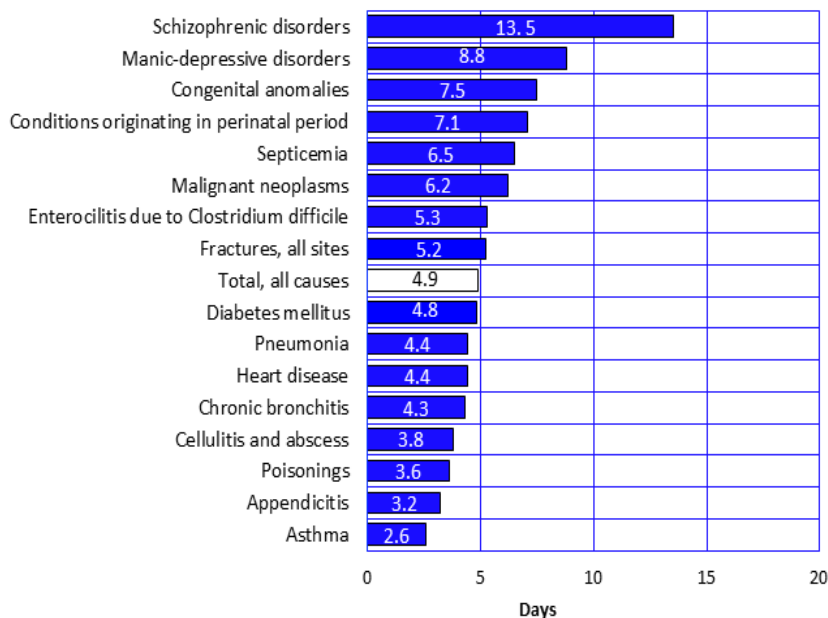


Note: <sup>a</sup> Excluding newborn infants.

In 2017, there were 617,661 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 39.2 percent of hospital discharges (Figure 4A-1), followed by young adults (20-44 years old) who comprised 28.1 percent of discharges, and middle-aged adults 45-64 year olds (25.2 percent of all inpatient discharges).

Diseases of the circulatory system were the most common diagnoses (13.6 percent of all discharges), followed by injury and poisoning diagnoses (9.8 percent), mental disorders (9.3 percent), and diseases of the digestive system (9.2 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, 2017



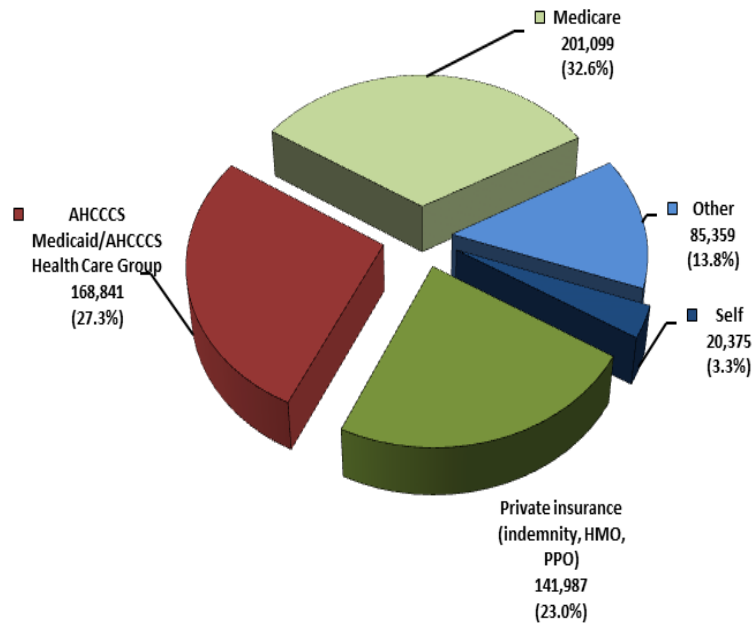
Based on the data from the National Hospital Discharge Survey, the longest continuously running nationally representative survey of hospital utilization, the length of stay for inpatients has changed dramatically from 1970 through 2010. In 1970, the average length of stay was 7.8 days, with one-third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

In 2017, the average length of hospital stay for Arizona inpatients was 4.9 days (Figure 4A-2, Table 4A-5). The percent of patients hospitalized for three days or less was 55.77 percent, with 16.5 percent of inpatients staying eight days or more.

The average length of stay was 4.4 days for heart disease, 4.8 days for diabetes, 6.2 days for cancer, and 13.5 days for schizophrenic disorders.

**Figure 4A-3**  
**Hospital Inpatient Discharges by Payer, Arizona Residents, 2017**

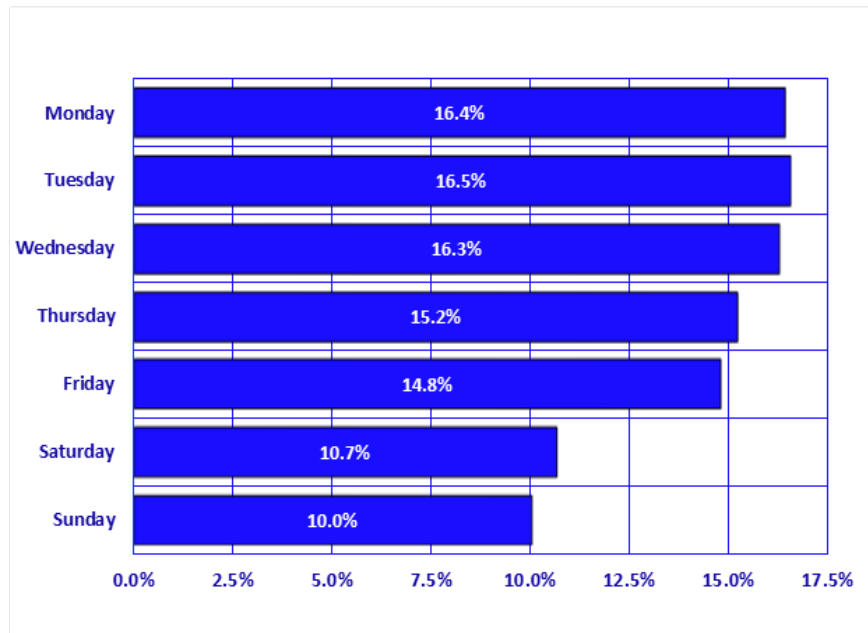
Medicare paid for 32.6 percent of all discharges (**Figure 4A-3**) and 69.7 percent of inpatient discharges of persons aged 65 years or older (**Table 4A-4**). The Arizona Health Care Cost Containment System (AHCCCS; the State's Medicaid Program) was the second most frequently recorded expected source of payment, accounting for 27.3 percent of inpatient discharges. Private insurance accounted for 23.0 percent of hospital inpatient discharges.



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

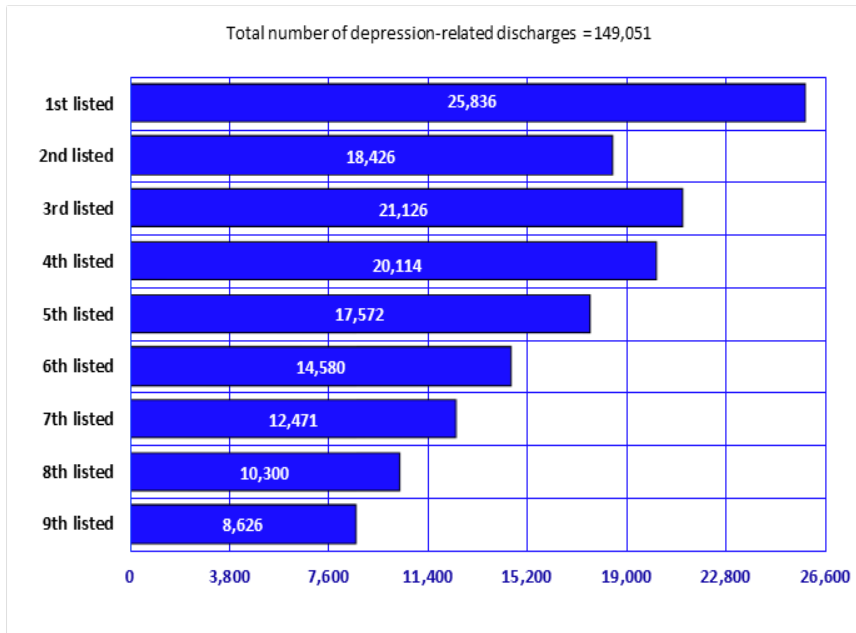
**Figure 4A-4**  
**Percent of Hospital Inpatient Admissions by Day of the Week, Arizona Residents, 2017**

The rhythm of hospital births by day of the week (see **Figure 1B-14**) reveals that the daily average of resident live births in 2017 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, 2017**

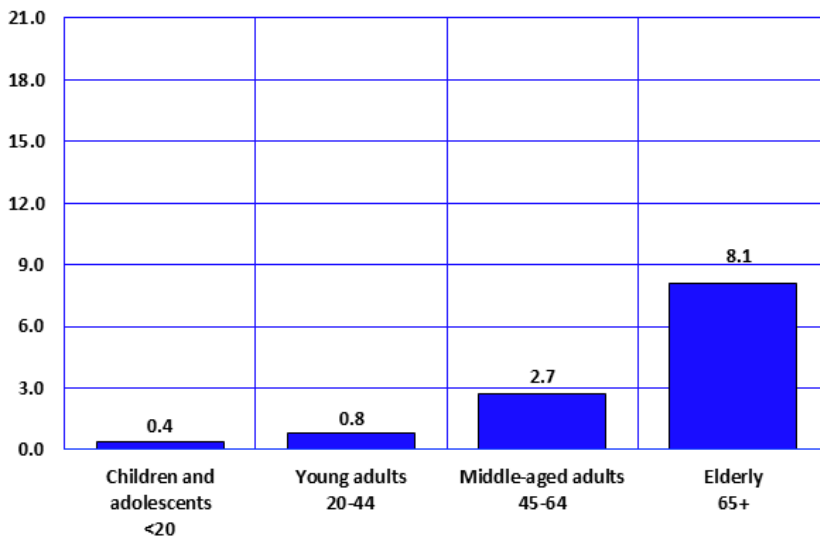


In 2017, *depression* accounted for 19,476 inpatient discharges and 6,360 emergency room visits as the first-listed diagnosis (for a total of 25,836 hospital encounters; **Figure 4A-5**, **Table 4A-1**, **Table 7C-1**).

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 149,051 inpatient discharges and emergency room records (**Figure 4A-5**). When hospital data are 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, 2017**



Note: Number of visits per 10,000 population

In 2017, 1,665 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 hospitalization rates associated with enterocolitis due to *Clostridium difficile* tend to increase with age. The rate for the elderly 65 years or older (8.1/10,000) was 3 times greater than the rate of middle-aged adults (**Figure 4A-6**).

In 2017, 144 Arizonans died from enterocolitis due to *Clostridium difficile*. Elderly 65 years or older accounted for 84.0 percent of these deaths (**Table 2C-27**).

**TABLE 4A-1  
NUMBER OF DISCHARGES<sup>a</sup> BY FIRST-LISTED DIAGNOSIS AND AGE GROUP, ARIZONA, 2017**

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	
<b>All categories</b>	617,661	27,533	18,877	173,534	155,572	242,137	8
<b>Infectious and parasitic diseases</b>	51,727	1,263	579	9,154	15,583	25,148	0
Septicemia	44,047	315	380	7,599	13,452	22,301	0
Enterocolitis due to <i>Clostridium difficile</i>	1,665	49	18	188	454	956	0
<b>Neoplasms</b>	21,879	402	146	2,369	7,939	11,023	0
Malignant neoplasms	17,778	312	90	1,372	6,313	9,691	0
Large intestine	2,209	0	0	121	803	1,285	0
Prostate	1,459	0	0	14	695	750	0
Trachea bronchus and lung	2,180†	6	*	80	625	1,469	0
Breast	830†	*	6	169	395	261	0
Benign neoplasms	3,354	58	36	909	1,410	941	0
<b>Endocrine nutritional metabolic and immunity diseases</b>	24,758	1,051	666	6,373	8,845	7,822	*
Diabetes mellitus	10,845	398	428	2,987	4,148	2,884	0
Volume depletion	1,377	297	27	111	265	677	0
Morbid obesity	2,820	0	11	1,394	1,176	239	0
<b>Diseases of the blood and blood forming organs</b>	5,624	640	196	1,149	1,289	2,350	0
Mental disorders	57,587	3,442	6,622	27,611	15,251	4,661	0
Psychoses	35,469	1,668	3,510	17,055	9,972	3,264	0
Alcoholic psychoses	4,037	0	12	1,658	1,994	373	0
Drug psychoses	670†	*	56	417	168	26	0
Schizophrenic disorders	6,811	12	200	4,168	2,196	235	0
Manic-depressive disorders	33,276	2,874	5,510	15,205	7,696	1,991	0
Neurotic disorders	13,351	809	1,202	5,797	4,434	1,109	0
Anxiety states	627	30	73	264	154	106	0
Depression	19,476	1,666	3,397	8,671	4,456	1,286	0
Drug dependence	2,440†	*	119	1,650	538	130	0
Nondependent abuse of drugs	180†	*	18	95	46	14	0
Alcohol dependence	6,087	0	33	2,599	2,901	554	0
<b>Diseases of the nervous system</b>	16,600	1,361	500	3,291	4,279	7,168	*
Diseases of the eye and adnexa	498	72	23	138	127	138	0
Diseases of the ear and mastoid process	619	114	17	86	145	256	*
Diseases of the circulatory system	84,222	330	208	5,179	23,417	55,088	0
Heart disease	55,280	173	112	3,133	15,231	36,631	0
Acute myocardial infarction	11,670†	0	*	513	4,069	7,090	0
Coronary atherosclerosis	5,110†	*	0	129	1,747	3,226	0

**TABLE 4A-1 (continued)**  
**NUMBER OF DISCHARGES<sup>a</sup> BY FIRST-LISTED DIAGNOSIS AND AGE GROUP, ARIZONA, 2017**

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	394	0	0	34	168	192	0
Cardiac dysrhythmias	12,114	60	30	613	2,724	8,687	0
Cardiac arrest	290†	10	*	30	96	150	0
Congestive heart failure	3,080†	34	*	282	856	1,907	0
Cerebrovascular diseases	18,936	50	36	803	4,843	13,204	0
Diseases of the respiratory system	48,571	6,778	609	4,211	11,762	25,211	0
Acute bronchitis and bronchiolitis	3,003	2,370	12	86	163	372	0
Pneumonia	9,913	956	97	971	2,273	5,616	0
Chronic bronchitis	9,790†	*	0	148	3,178	6,457	0
Asthma	3,171	1,413	112	743	559	344	0
Diseases of the digestive system	56,743	1,928	858	11,905	18,799	23,253	0
Appendicitis	2,855	688	232	827	675	433	0
Noninfectious enteritis and colitis	4,782	217	94	1,244	1,337	1,890	0
Diverticula of intestine	4,710†	0	*	597	1,610	2,498	0
Cholelithiasis	3,639	25	79	1,177	1,154	1,204	0
Diseases of the genitourinary system	25,814	989	359	4,596	7,093	12,777	0
Calculus of kidney and ureter	523	12	9	154	191	157	0
Diseases of the skin and subcutaneous tissue	14,244	959	218	3,993	4,711	4,363	0
Cellulitis and abscess	8,948	466	107	2,188	2,991	3,196	0
Diseases of the musculoskeletal system	45,290	627	353	3,305	15,112	25,891	*
Osteoarthritis and allied disorders	24,440†	0	*	320	8,161	15,953	0
Invertebral disc disorders	3,070†	*	10	616	1,286	1,149	0
Congenital anomalies	2,177	1,317	146	244	277	193	0
Conditions originating in perinatal period	1,930†	1,928	0	*	0	0	0
Symptoms signs and ill-defined conditions	12,405	1,354	240	1,836	3,264	5,710	*
Injury and poisoning	60,573	2,265	1,806	11,857	15,926	28,717	*
Fractures, all sites	19,502	575	430	2,818	3,744	11,935	0
Fracture of neck of femur	6,838	18	11	137	797	5,875	0
Poisonings	5,201	279	447	2,010	1,667	798	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; <sup>a</sup> Excluding newborn infants.

**Correction:** Due to a processing error in the 2016 print version of this report, the total number of asthma discharges was reported to be 11,345 instead of 3,420 (children <15 = 1,561, adolescents 15-19 = 135, young adults 20-44 = 778, middle-aged adult 45-64 = 632, and elderly 65+ = 314).



**TABLE 4A-2  
NUMBER OF DISCHARGES<sup>a</sup> BY FIRST-LISTED DIAGNOSIS AND GENDER, ARIZONA, 2017**

Category of first-listed diagnosis	Total	Patient's gender		
		Male	Female	Unknown
All categories	617,661	271,510	346,139	12
Infectious and parasitic diseases	51,727	25,869	25,858	0
Septicemia	44,047	22,311	21,736	0
Enterocolitis due to <i>Clostridium difficile</i>	1,665	633	1,032	0
Neoplasms	21,879	10,934	10,945	0
Malignant neoplasms	17,778	9,760	8,018	0
Large intestine	2,209	1,146	1,063	0
Prostate	1,460†	1,458	*	0
Trachea bronchus and lung	2,184	1,013	1,171	0
Breast	832	58	774	0
Benign neoplasms	3,354	817	2,537	0
Endocrine nutritional metabolic and immunity diseases	24,758	12,008	12,750	0
Diabetes mellitus	10,845	6,564	4,281	0
Volume depletion	1,377	631	746	0
Morbid obesity	2,820	591	2,229	0
Diseases of the blood and blood forming organs	5,624	2,505	3,119	0
Mental disorders	57,587	30,415	27,172	0
Psychoses	35,469	19,525	15,944	0
Alcoholic psychoses	4,037	2,920	1,117	0
Drug psychoses	670	440	230	0
Schizophrenic disorders	6,811	4,230	2,581	0
Manic-depressive disorders	33,276	15,353	17,923	0
Neurotic disorders	13,351	7,864	5,487	0
Anxiety states	627	274	353	0
Depression	19,476	8,865	10,611	0
Drug dependence	2,441	1,534	907	0
Nondependent abuse of drugs	175	112	63	0
Alcohol dependence	6,087	4,335	1,752	0
Diseases of the nervous system	16,600	8,154	8,446	0
Diseases of the eye and adnexa	498	241	257	0
Diseases of the ear and mastoid process	619	254	365	0
Diseases of the circulatory system	84,222	47,533	36,685	*
Heart disease	55,280	31,805	23,472	*
Acute myocardial infarction	11,673	7,265	4,406	*
Coronary atherosclerosis	5,105	3,593	1,512	0

**TABLE 4A-2 (continued)  
NUMBER OF DISCHARGES<sup>a</sup> BY FIRST-LISTED DIAGNOSIS AND GENDER, ARIZONA, 2017**

Category of first-listed diagnosis	Total	Patient's gender		
		Male	Female	Unknown
Other ischemic heart disease	394	227	167	0
Cardiac dysrhythmias	12,114	6,422	5,692	0
Cardiac arrest	290	187	103	0
Congestive heart failure	3,084	1,797	1,287	0
Cerebrovascular diseases	18,936	10,099	8,836	*
Diseases of the respiratory system	48,571	23,751	24,820	0
Acute bronchitis and bronchiolitis	3,003	1,602	1,401	0
Pneumonia	9,913	4,857	5,056	0
Chronic bronchitis	9,785	4,315	5,470	0
Asthma	3,171	1,443	1,728	0
Diseases of the digestive system	56,743	27,073	29,669	*
Appendicitis	2,855	1,548	1,307	0
Noninfectious enteritis and colitis	4,782	1,907	2,875	0
Diverticula of intestine	4,709	2,069	2,640	0
Cholelithiasis	3,639	1,446	2,192	*
Diseases of the genitourinary system	25,814	11,499	14,314	*
Calculus of kidney and ureter	523	237	286	0
Diseases of the skin and subcutaneous tissue	14,244	7,822	6,421	*
Cellulitis and abscess	8,948	4,866	4,082	0
Diseases of the musculoskeletal system	45,290	20,859	24,431	0
Osteoarthritis and allied disorders	24,438	10,287	14,151	0
Invertebral disc disorders	3,065	1,632	1,433	0
Congenital anomalies	2,177	1,204	973	0
Conditions originating in perinatal period	1,929	1,081	848	0
Symptoms signs and ill-defined conditions	12,405	6,186	6,219	0
Injury and poisoning	60,573	31,062	29,506	*
Fractures, all sites	19,502	8,539	10,961	*
Fracture of neck of femur	6,838	2,326	4,512	0
Poisonings	5,201	2,398	2,803	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; <sup>a</sup> Excluding newborn infants.

**Correction:** Due to a processing error in the 2016 print version of this report, the total number of asthma discharges was reported to be 11,345 instead of 3,420 (male = 1,526 and female = 1,894).

**TABLE 4A-3  
NUMBER OF DISCHARGES BY FIRST-LISTED DIAGNOSIS AND RACE/ETHNICITY, ARIZONA, 2017**

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		
<b>Total</b>	617,661	419,244	124,919	33,243	22,746	11,913	5,596	
<b>Infectious and parasitic diseases</b>	51,727	35,265	10,272	2,403	2,362	1,006	419	
Septicemia	44,047	30,211	8,681	1,926	2,069	830	330	
Enterocolitis due to <i>Clostridium difficile</i>	1,665	1,312	217	62	51	14	9	
<b>Neoplasms</b>	21,879	16,165	3,542	1,053	372	514	233	
Malignant neoplasms	17,778	13,536	2,680	692	294	395	181	
Large intestine	2,209	1,687	362	63	31	55	11	
Prostate	1,459	1,160	159	87	12	16	25	
Trachea bronchus and lung	2,184	1,797	209	87	12	61	18	
Breast	832	620	108	66	15	20	*	
Benign neoplasms	3,354	2,082	746	314	64	99	49	
<b>Endocrine nutritional metabolic and immunity diseases</b>	24,758	15,009	5,909	1,684	1,571	407	178	
Diabetes mellitus	10,845	6,072	2,880	751	905	153	84	
Volume depletion	1,377	970	241	71	57	24	14	
Morbid obesity	2,820	1,751	740	243	32	37	17	
<b>Diseases of the blood and blood forming organs</b>	5,624	3,302	1,128	811	187	129	67	
<b>Mental disorders</b>	57,587	40,221	9,411	4,348	2,571	708	328	
Psychoses	35,469	24,907	5,739	2,621	1,580	413	209	
Alcoholic psychoses	4,037	3,059	456	134	332	32	24	
Drug psychoses	670	436	151	50	24	8	*	
<b>Schizophrenic disorders</b>	6,811	4,238	1,188	978	262	98	47	
<b>Manic-depressive disorders</b>	33,276	23,546	5,463	2,333	1,342	428	164	
<b>Neurotic disorders</b>	13,351	9,490	2,082	654	872	157	96	
Anxiety states	627	461	120	18	13	7	8	
<b>Depression</b>	19,476	13,567	3,337	1,238	981	265	88	
<b>Drug dependence</b>	2,441	1,810	469	93	46	10	13	
<b>Nondependent abuse of drugs</b>	175	117	29	8	20	0	*	
<b>Alcohol dependence</b>	6,087	4,583	704	196	530	44	30	
<b>Diseases of the nervous system</b>	16,600	11,888	2,811	948	530	230	193	
<b>Diseases of the eye and adnexa</b>	498	326	107	26	21	9	9	
<b>Diseases of the ear and mastoid process</b>	619	392	152	24	30	16	*	
<b>Diseases of the circulatory system</b>	84,222	64,010	11,931	4,141	1,863	1,432	845	
Heart disease	55,280	42,517	7,751	2,492	1,176	868	476	
Acute myocardial infarction	11,673	8,738	1,927	410	217	227	154	
Coronary atherosclerosis	5,105	4,018	676	149	84	119	59	

**TABLE 4A-3 (continued)  
NUMBER OF DISCHARGES\* BY FIRST-LISTED DIAGNOSIS AND RACE/ETHNICITY, ARIZONA, 2017**

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	390†	286	67	23	9	*	*	
Cardiac dysrhythmias	12,114	10,000	1,344	343	188	145	94	
Cardiac arrest	290†	196	53	14	11	*	12	
Congestive heart failure	3,084	2,287	465	142	123	42	25	
Cerebrovascular diseases	18,936	14,379	2,657	876	347	397	280	
Diseases of the respiratory system	48,571	34,801	8,264	2,508	1,883	772	343	
Acute bronchitis and bronchiolitis	3,003	1,459	1,006	189	254	68	27	
Pneumonia	9,913	6,970	1,754	434	502	185	68	
Chronic bronchitis	9,785	8,266	845	373	145	109	47	
Asthma	3,171	1,446	1,031	451	162	56	25	
Diseases of the digestive system	56,743	38,558	11,864	2,480	2,456	959	426	
Appendicitis	2,855	1,617	972	79	97	58	32	
Noninfectious enteritis and colitis	4,782	3,552	743	272	100	87	28	
Diverticula of intestine	4,709	3,614	771	174	83	42	25	
Cholelithiasis	3,639	2,142	1,111	133	172	58	23	
Diseases of the genitourinary system	25,814	17,310	5,527	1,363	984	439	191	
Calculus of kidney and ureter	523	390	94	16	11	6	6	
Diseases of the skin and subcutaneous tissue	14,244	9,728	2,712	671	895	150	88	
Cellulitis and abscess	8,948	6,440	1,485	348	543	82	50	
Diseases of the musculoskeletal system	45,290	36,887	4,930	1,589	702	809	373	
Osteoarthritis and allied disorders	24,438	20,811	2,093	667	203	471	193	
Invertebral disc disorders	3,065	2,460	361	137	42	45	20	
Congenital anomalies	2,177	1,197	690	91	105	61	33	
Conditions originating in perinatal period	1,929	864	742	114	87	46	76	
Symptoms signs and ill-defined conditions	12,405	8,580	2,282	742	441	227	133	
Injury and poisoning	60,573	43,553	10,277	2,576	2,569	871	727	
Fractures, all sites	19,502	15,153	2,794	480	635	221	219	
Fracture of neck of femur	6,838	5,863	659	74	118	69	55	
Poisonings	5,201	3,540	1,027	296	193	51	94	

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.

**Correction:** Due to a processing error in the 2016 print version of this report, the total number of asthma discharges was reported to be 11,345 instead of 3,420 (White non-Hispanic = 1,554, Hispanic or Latino = 1,060, Black or African American = 515, American Indian or Alaska Native = 179, Asian or Pacific Islander = 79, and Refused/Unknown = 33).

**TABLE 4A-4  
NUMBER OF DISCHARGES<sup>a</sup> BY PRIMARY PAYER, GENDER, AGE GROUP, RACE/ETHNICITY,  
AND MARITAL STATUS, ARIZONA, 2017**

Selected characteristics		Total	Self-pay	Private insurance (indemnity, HMO, PPO)	AHCCCS/Medicaid	Medicare	Other
<b>Total</b>		617,661	20,375	141,987	168,841	201,099	85,359
<b>Gender</b>	<b>Male</b>	271,510	10,054	54,474	67,477	98,105	41,400
	<b>Female</b>	346,139	10,319	87,511	101,360	102,990	43,959
	<b>Unknown</b>	10 <sup>†</sup>	*	*	*	*	0
<b>Age group</b>	<b>Children &lt;15 years</b>	27,533	835	8,636	16,776	33	1,253
	<b>Adolescents 15-19 years</b>	18,877	1,657	5,796	10,592	49	783
	<b>Young adults 20-44 years</b>	173,534	10,721	60,695	86,949	6,946	8,223
	<b>Middle-aged adults 45-64 years</b>	155,572	6,253	54,900	50,879	25,327	18,213
	<b>Elderly 65+ years</b>	242,137	902	11,960	3,645	168,743	56,887
	<b>Unknown</b>	10 <sup>†</sup>	7	0	0	*	0
<b>Race/ethnicity</b>	<b>White non-Hispanic</b>	419,244	12,000	102,489	76,716	163,347	64,692
	<b>Hispanic or Latino</b>	124,919	5,616	24,545	60,600	20,661	13,497
	<b>Black or African American</b>	33,243	1,432	6,416	14,261	7,379	3,755
	<b>American Indian or Alaska Native</b>	22,746	694	2,653	12,488	5,513	1,398
	<b>Asian or Pacific Islander</b>	11,913	434	4,334	3,004	2,865	1,276
	<b>Refused/Unknown</b>	5,596	199	1,550	1,772	1,334	741
<b>Patient's marital status</b>	<b>Single</b>	234,179	11,849	50,159	114,151	36,990	21,030
	<b>Married</b>	255,424	5,853	79,115	33,526	98,789	38,141
	<b>Separated</b>	5,164	169	868	2,272	1,167	688
	<b>Divorced</b>	52,551	1,751	7,970	13,395	19,490	9,945
	<b>Widowed</b>	65,211	474	2,965	3,436	43,334	15,002
	<b>Not Applicable</b>	140 <sup>†</sup>	*	29	102	*	*
	<b>Unknown</b>	4,995	278	881	1,959	1,328	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; <sup>a</sup> Excluding newborn infants.

**TABLE 4A-5  
AVERAGE LENGTH OF STAY FOR DISCHARGES<sup>a</sup> BY FIRST-LISTED DIAGNOSIS AND AGE GROUP, ARIZONA, 2017**

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	
<b>All conditions</b>	4.9	5.4	6.2	4.1	5.2	5.1	0.9
<b>Infectious and parasitic diseases</b>	6.3	5.0	4.7	5.8	6.8	6.3	0.0
<b>Septicemia</b>	6.5	9.8	5.0	6.0	7.0	6.4	0.0
<b>Enterocolitis due to <i>Clostridium difficile</i></b>	5.3	5.3	5.2	4.4	5.1	5.5	0.0
<b>Neoplasms</b>	5.8	13.4	8.5	5.1	5.5	5.8	0.0
<b>Malignant neoplasms</b>	6.2	15.5	11.7	6.8	6.0	5.9	0.0
<b>Large intestine</b>	6.0	0.0	0.0	6.1	5.9	6.1	0.0
<b>Prostate</b>	1.9	0.0	0.0	1.5	1.6	2.1	0.0
<b>Trachea bronchus and lung</b>	5.8	6.8	5.8	5.2	5.9	5.9	0.0
<b>Breast</b>	3.8	1.0	1.3	3.1	3.8	4.4	0.0
<b>Benign neoplasms</b>	3.6	7.0	3.3	2.6	3.4	4.7	0.0
<b>Endocrine nutritional metabolic and immunity diseases</b>	4.1	4.2	3.7	3.3	4.2	4.6	0.0
<b>Diabetes mellitus</b>	4.8	2.4	2.2	3.6	5.4	6.0	0.0
<b>Volume depletion</b>	2.9	2.3	2.5	2.5	2.9	3.3	0.0
<b>Morbid obesity</b>	1.7	0.0	1.6	1.6	1.8	2.1	0.0
<b>Diseases of the blood and blood forming organs</b>	4.2	4.6	4.4	4.1	4.3	4.1	0.0
<b>Mental disorders</b>	9.0	10.7	11.1	8.0	8.7	11.4	0.0
<b>Psychoses</b>	9.1	11.0	12.0	8.0	8.6	11.5	0.0
<b>Alcoholic psychoses</b>	5.3	0.0	9.3	4.6	5.5	7.0	0.0
<b>Drug psychoses</b>	5.6	4.0	11.4	4.8	5.2	6.6	0.0
<b>Schizophrenic disorders</b>	13.5	16.2	15.3	12.9	13.8	20.0	0.0
<b>Manic-depressive disorders</b>	8.8	10.6	10.1	7.6	8.7	12.3	0.0
<b>Neurotic disorders</b>	6.3	9.4	12.6	5.0	5.6	7.1	0.0
<b>Anxiety states</b>	5.3	6.9	7.3	4.8	4.3	6.1	0.0
<b>Depression</b>	7.8	9.1	8.3	6.7	8.2	10.7	0.0
<b>Drug dependence</b>	6.7	43.5	29.3	5.1	6.5	7.0	0.0
<b>Nondependent abuse of drugs</b>	12.5	140.5	74.3	3.5	4.1	3.5	0.0
<b>Alcohol dependence</b>	5.3	0.0	16.4	4.6	5.4	7.0	0.0
<b>Diseases of the nervous system</b>	5.7	3.9	4.1	4.6	5.4	6.9	1.0
<b>Diseases of the eye and adnexa</b>	3.6	3.2	3.3	3.5	3.2	4.2	0.0
<b>Diseases of the ear and mastoid process</b>	2.7	2.0	2.5	2.6	2.5	3.2	1.0
<b>Diseases of the circulatory system</b>	4.8	10.3	5.5	4.7	4.8	4.8	0.0
<b>Heart disease</b>	4.4	13.3	5.1	4.2	4.3	4.4	0.0
<b>Acute myocardial infarction</b>	4.1	0.0	3.0	3.1	3.9	4.4	0.0
<b>Coronary atherosclerosis</b>	4.7	4.3	0.0	2.9	4.4	4.9	0.0

**TABLE 4A-5 (continued)**  
**AVERAGE LENGTH OF STAY FOR DISCHARGES<sup>a</sup> BY FIRST-LISTED DIAGNOSIS AND AGE GROUP, ARIZONA, 2017**

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	2.2	0.0	0.0	1.9	2.0	2.4	0.0
Cardiac dysrhythmias	3.2	4.6	2.3	2.7	3.1	3.3	0.0
Cardiac arrest	2.9	11.3	1.8	2.0	3.3	2.3	0.0
Congestive heart failure	5.7	31.2	37.4	6.0	5.6	5.1	0.0
Cerebrovascular diseases	6.2	8.6	6.8	7.4	6.5	6.0	0.0
Diseases of the respiratory system	5.0	3.3	4.4	4.8	5.5	5.4	0.0
Acute bronchitis and bronchiolitis	3.2	3.2	5.3	2.6	2.9	3.4	0.0
Pneumonia	4.4	3.3	4.6	4.1	4.5	4.6	0.0
Chronic bronchitis	4.3	4.5	0.0	3.5	4.1	4.4	0.0
Asthma	2.6	1.9	2.8	2.9	3.5	3.7	0.0
Diseases of the digestive system	4.3	4.3	4.0	3.7	4.4	4.7	0.0
Appendicitis	3.2	4.0	3.3	2.4	3.1	3.9	0.0
Noninfectious enteritis and colitis	4.1	4.4	6.5	3.7	4.0	4.2	0.0
Diverticula of intestine	4.2	0.0	2.5	3.8	4.1	4.4	0.0
Cholelithiasis	3.1	3.9	2.7	2.3	2.9	3.9	0.0
Diseases of the genitourinary system	3.8	3.0	2.8	2.9	3.7	4.2	0.0
Calculus of kidney and ureter	2.5	2.3	2.7	2.1	2.3	3.0	0.0
Diseases of the skin and subcutaneous tissue	4.2	2.6	3.5	3.7	4.5	4.8	0.0
Cellulitis and abscess	3.8	2.2	3.0	3.3	4.0	4.3	0.0
Diseases of the musculoskeletal system	3.0	4.7	3.6	3.6	2.8	2.9	2.0
Osteoarthritis and allied disorders	1.9	0.0	2.5	1.9	1.8	1.9	0.0
Invertebral disc disorders	3.3	2.5	2.0	2.6	2.9	4.1	0.0
Congenital anomalies	7.5	9.3	3.6	4.9	5.0	4.9	0.0
Conditions originating in perinatal period	7.1	7.1	0.0	3.0	0.0	0.0	0.0
Symptoms signs and ill-defined conditions	3.4	3.1	3.0	3.1	3.1	3.7	1.0
Injury and poisoning	5.5	4.2	4.7	5.1	5.7	5.8	0.0
Fractures, all sites	5.2	2.4	3.5	4.4	4.9	5.6	0.0
Fracture of neck of femur	4.8	3.0	2.8	4.4	4.9	4.8	0.0
Poisonings	3.6	2.1	2.6	3.4	4.0	4.3	0.0

Note: <sup>a</sup> Excluding newborn infants.

**Correction:** Due to a processing error in the 2016 print version of this report, total average length of stay of discharges for asthma was reported to be 3.7 instead of 2.6 (children <15 = 2.1, adolescents 15-19 = 2.4, young adults 20-44 = 2.8, middle-aged adults 45-64 = 3.3, and elderly 65+ = 3.8).







**4B.**

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

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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 only analyzed the top six procedures. Another reason is comparability with the previously published data for 2000-2007. Starting with the 2016 report, all the 12 listed procedures in the database are being taken into account in our analysis.

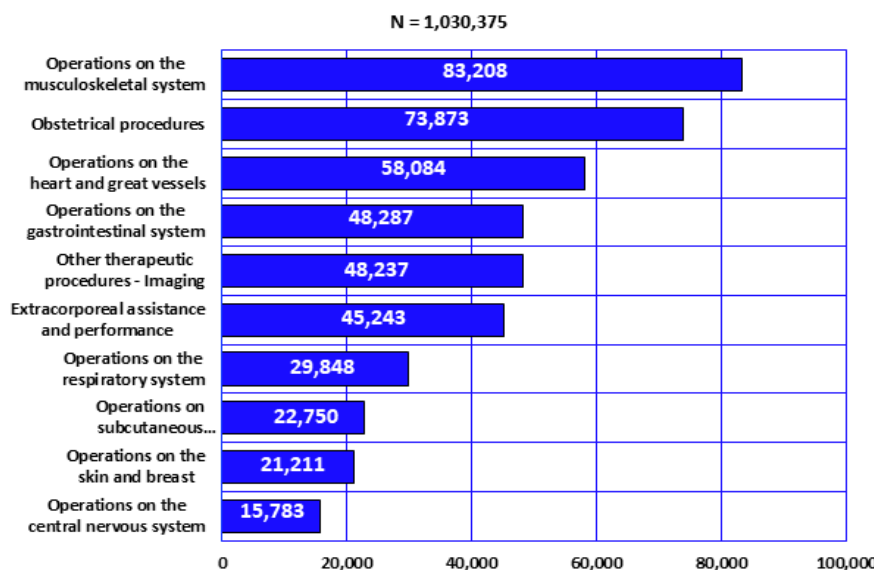
During 2015, all Arizona Hospitals transitioned to the International Classification of Diseases, 10th Revision, and Procedure Coding System (ICD-10-PCS) for coding inpatient procedures. ICD-10-PCS was implemented on October 1, 2015 in replacement of the International Classification of Diseases, Ninth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

In the current report, procedure groupings and codes are based on ICD-10-PCS. 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 2017 hospital discharge data with data from years prior 2016. 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

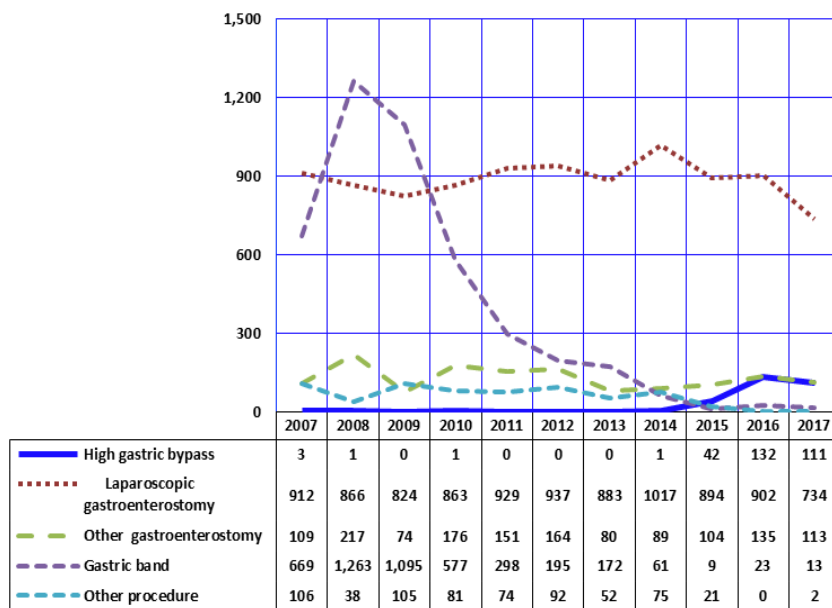
**Figure 4B-1**  
**Ten Leading Categories of All-listed Inpatient Procedures,**  
**Arizona Residents, 2017**



During 2017, 1,030,375 procedures were performed among the 617,661 total inpatient discharges to Arizona residents. The rate of procedures was 1,479.2 per 10,000 population. For Arizona males, this rate was 1347.6/10,000, and for Arizona females it was 1609.0/10,000.

No specific procedure was recorded for approximately 40 percent of all inpatient discharges. Only 1.8 percent of inpatients had six procedures reported while 0.8 of inpatients had 12 procedures recorded. Among the inpatient discharges which had one or more specific procedures recorded, the most frequent were operations on the musculoskeletal system, followed by obstetrical procedures, and operations on the heart and great vessels (**Figure 4B-1, Table 4B1**).

**Figure 4B-2**  
**Trends in Types of Inpatient Procedures Performed in Treatment of Morbid Obesity, Arizona Residents, 2007-2017**



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 2017, *morbid obesity* was the principal diagnosis for 2,820 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 fewer than 10 gastric bypass surgeries being completed collectively between 2007-2014. Since 2015, the number of *gastric bypass* procedures has been increasing, except in 2017 (**Figure 4B-2**). As in any years since 2010, *laparoscopic gastroenterostomy* remained the most popular procedure, with 734 surgeries performed in 2017.

Note: The frequency counts in Figure 4B-2 are based on the principal procedure. The tabulated data use all twelve listed procedures.

**TABLE 4B-1  
NUMBER OF PROCEDURES BY CATEGORY AND AGE GROUP, ARIZONA, 2017**

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	1,030,375	57,421	23,196	287,834	275,737	386,178	9
Operations on the central nervous system	15,783	2,419	449	4,102	4,153	4,660	0
Spinal tap	6,893	1,885	146	1,497	1,750	1,615	0
Operations on the peripheral nervous system	4,147	33	68	872	1,418	1,756	0
Operations on the heart and great vessels	58,084	2,474	500	6,475	18,558	30,077	0
Heart transplant	60†	7	*	13	25	12	0
Coronary artery bypass graft	3,430†	*	0	54	1,183	2,192	0
Cardiac catheterization	18,983	112	24	1,033	6,942	10,872	0
Insertion, replacement, removal, of pacemaker leads	4,460†	38	*	137	748	3,536	0
Operations on the upper arteries	10,934	385	142	1,236	3,393	5,777	*
Operations on the lower arteries	6,580	285	57	533	1,763	3,942	0
Operations on the upper veins	9,404	249	83	1,658	3,101	4,313	0
Operations on the lower veins	9,483	1,091	57	894	3,107	4,334	0
Operations on the lymphatic and hemic systems	8,713	370	118	929	3,101	4,195	0
Operations on the eye	522	68	26	174	130	124	0
Operations on the ear, nose, sinus	841	132	43	222	227	217	0
Operations on the respiratory system	29,848	2,189	429	4,560	9,428	13,240	*
Bronchoscopy with or without biopsy	5,439	245	79	737	1,766	2,612	0
Operations on the mouth and throat	3,086	754	123	694	798	717	0
Operations on the gastrointestinal system	48,287	2,253	795	9,726	15,000	20,513	0
Implantation of gastric band	10†	0	0	*	*	*	0
Endoscopy of small intestine with or without biopsy	11,397	206	150	2,082	3,661	5,298	0
Endoscopy of large intestine with or without biopsy	7,827	113	95	1,098	2,379	4,142	0
Appendectomy, excluding incidental	3,765	776	262	1,087	973	667	0
Operations on the hepatobiliary system and pancreas	13,210	162	250	3,229	4,240	5,329	0
Cholecystectomy	7,593	55	185	2,379	2,320	2,654	0
Operations on the endocrine system	1,087	28	26	217	421	395	0
Operations on the skin and breast	21,211	495	1,220	12,435	3,799	3,262	0
Breast surgery	830†	*	6	169	395	261	0

**TABLE 4B-1 (continued)  
NUMBER OF PROCEDURES BY CATEGORY AND AGE GROUP, ARIZONA, 2017**

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 subcutaneous tissue and fascia	22,750	717	379	4,958	7,549	9,147	0
Operations on the musculoskeletal system	83,208	1,382	1,915	20,664	22,523	36,724	0
Open reduction of fracture with or without internal fixation□	7,090	285	202	1,213	1,675	3,715	0
Total hip replacement	8,870†	*	*	257	2,983	5,622	0
Total knee replacement	15,540†	*	*	156	5,316	10,059	0
Operations on the urinary system	16,869	398	195	3,165	5,344	7,767	0
Kidney transplant	260†	*	*	80	124	52	0
Operations on the male reproductive system	7,998	5,384	16	223	1,009	1,366	0
Prostatectomy	1,981	0	0	21	781	1,179	0
Operations on the female reproductive system	14,577	57	720	11,067	1,813	920	0
Oophorectomy and salpingo-oophorectomy	3,531	6	21	1,519	1,358	627	0
Hysterectomy	3,140†	*	*	1,301	1,327	510	0
Obstetrical procedures	73,873	32	4,529	69,165	147	0	0
Episiotomy with or without forceps or vacuum extraction	2,814	0	266	2,541	7	0	0
Artificial rupture of membranes	19,724	11	1,245	18,438	30	0	0
Cesarean section	20,506	8	717	19,692	89	0	0
Other therapeutic procedures - Imaging	48,237	1,455	324	5,459	15,919	25,080	0
Computerized tomography (CT Scan)	565	118	9	69	169	200	0
Magnetic resonance imaging (MRI)	922	684	48	33	65	92	0
Other therapeutic procedures - Nuclear medicine	210†	55	*	18	53	81	0
Other therapeutic procedures - Radiation therapy	197	6	7	23	77	84	0
Extracorporeal assistance and performance	45,243	3,080	476	5,687	14,444	21,554	*
Hemodialysis	10,410	21	34	1,373	4,077	4,905	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, 2017**

Procedures by category	Total	Patient's gender		
		Male	Female	Unknown
All procedures	1,030,375	466,364	563,970	41
Operations on the central nervous system	15,783	7,638	8,145	0
Spinal tap	6,893	3,638	3,255	0
Operations on the peripheral nervous system	4,147	2,391	1,756	0
Operations on the heart and great vessels	58,084	33,342	24,738	*
Heart transplant	59	40	19	0
Coronary artery bypass graft	3,430	2,623	807	0
Cardiac catheterization	18,983	11,786	7,195	*
Insertion, replacement, removal, of pacemaker leads	4,464	2,467	1,997	0
Operations on the upper arteries	10,934	6,070	4,864	0
Operations on the lower arteries	6,580	4,005	2,575	0
Operations on the upper veins	9,404	4,630	4,774	0
Operations on the lower veins	9,483	6,082	3,401	0
Operations on the lymphatic and hemic systems	8,713	4,756	3,957	0
Operations on the eye	522	346	176	0
Operations on the ear, nose, sinus	841	508	333	0
Operations on the respiratory system	29,848	16,421	13,425	*
Bronchoscopy with or without biopsy	5,439	3,045	2,394	0
Operations on the mouth and throat	3,086	1,936	1,150	0
Operations on the gastrointestinal system	48,287	22,299	25,988	0
Implantation of gastric band	10†	*	11	0
Endoscopy of small intestine with or without biopsy	11,397	5,570	5,827	0
Endoscopy of large intestine with or without biopsy	7,827	3,726	4,101	0
Appendectomy, excluding incidental	3,765	1,907	1,858	0
Operations on the hepatobiliary system and pancreas	13,210	6,032	7,177	*
Cholecystectomy	7,593	3,128	4,464	*
Operations on the endocrine system	1,087	444	643	0
Operations on the skin and breast	21,211	6,473	14,735	*
Breast surgery	832	58	774	0

**TABLE 4B-2 (continued)  
NUMBER OF PROCEDURES BY CATEGORY AND GENDER, ARIZONA, 2017**

Procedures by category	Total	Patient's gender		
		Male	Female	Unknown
Operations on the subcutaneous tissue and fascia	22,750	12,712	10,037	*
Operations on the musculoskeletal system	83,208	33,503	49,704	*
Open reduction of fracture with or without internal fixation□	7,090	2,944	4,146	0
Total hip replacement	8,868	3,804	5,064	0
Total knee replacement	15,540	6,366	9,174	0
Operations on the urinary system	16,869	8,725	8,144	0
Kidney transplant	258	155	103	0
Operations on the male reproductive system	7,998	7,974	20	*
Prostatectomy	1,980†	1,980	*	0
Operations on the female reproductive system	14,580†	*	14,574	0
Oophorectomy and salpingo-oophorectomy	3,530†	*	3,530	0
Hysterectomy	3,140†	*	3,142	0
Obstetrical procedures	73,873	0	73,873	0
Episiotomy with or without forceps or vacuum extraction	2,814	0	2,814	0
Artificial rupture of membranes	19,724	0	19,724	0
Cesarean section	20,506	0	20,506	0
Other therapeutic procedures - Imaging	48,237	27,273	20,962	*
Computerized tomography (CT Scan)	565	303	262	0
Magnetic resonance imaging (MRI)	922	481	441	0
Other therapeutic procedures - Nuclear medicine	210	103	107	0
Other therapeutic procedures - Radiation therapy	197	120	77	0
Extracorporeal assistance and performance	45,243	26,361	18,880	*
Hemodialysis	10,410	5,980	4,430	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, 2017**

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	1,030,375	685,548	221,397	51,474	37,722	22,966	11,268
Operations on the central nervous system	15,783	9,987	3,779	906	508	340	263
Spinal tap	6,893	4,085	1,778	493	267	163	107
Operations on the peripheral nervous system	4,147	3,196	602	148	107	55	39
Operations on the heart and great vessels	58,084	42,019	9,669	2,608	2,132	1,091	565
Heart transplant	60†	28	19	7	*	*	0
Coronary artery bypass graft	3,430	2,667	509	78	43	95	38
Cardiac catheterization	18,983	14,168	3,002	830	403	343	237
Insertion, replacement, removal, of pacemaker leads	4,464	3,628	530	121	78	68	39
Operations on the upper arteries	10,934	7,747	1,773	576	449	227	162
Operations on the lower arteries	6,580	4,805	1,022	346	210	129	68
Operations on the upper veins	9,404	6,274	1,775	598	531	134	92
Operations on the lower veins	9,483	6,404	1,874	492	383	216	114
Operations on the lymphatic and hemic systems	8,713	6,612	1,301	376	142	196	86
Operations on the eye	522	299	135	43	33	6	6
Operations on the ear, nose, sinus	841	518	203	50	34	20	16
Operations on the respiratory system	29,848	20,704	5,306	1,632	1,158	640	408
Bronchoscopy with or without biopsy	5,439	3,870	945	275	163	131	55
Operations on the mouth and throat	3,086	1,961	688	211	103	74	49
Operations on the gastrointestinal system	48,287	33,551	9,422	2,309	1,552	1,025	428
Implantation of gastric band	10†	*	*	*	*	*	*
Endoscopy of small intestine with or without biopsy	11,397	8,043	2,026	531	512	194	91
Endoscopy of large intestine with or without biopsy	7,827	5,741	1,283	352	266	134	51
Appendectomy, excluding incidental	3,765	2,226	1,159	127	127	86	40
Operations on the hepatobiliary system and pancreas	13,210	8,389	3,393	509	533	275	111
Cholecystectomy	7,593	4,556	2,237	268	323	147	62
Operations on the endocrine system	1,087	721	197	91	28	32	18
Operations on the skin and breast	21,211	11,873	6,481	1,158	999	475	225
Breast surgery	832	620	108	66	15	20	*

**TABLE 4B-3 (continued)  
NUMBER OF PROCEDURES BY CATEGORY AND RACE/ETHNICITY, ARIZONA, 2017**

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 subcutaneous tissue and fascia	22,750	15,522	4,386	1,118	1,207	341	176
Operations on the musculoskeletal system	83,208	61,561	13,778	3,003	2,128	1,970	768
Open reduction of fracture with or without internal fixation□	7,090	5,298	1,201	201	234	80	76
Total hip replacement	8,868	7,886	472	253	60	132	65
Total knee replacement	15,540	12,785	1,647	465	158	351	134
Operations on the urinary system	16,869	11,929	3,184	716	549	351	140
Kidney transplant	258	120	72	26	21	14	*
Operations on the male reproductive system	7,998	5,731	1,309	423	123	293	119
Prostatectomy	1,981	1,599	220	100	12	28	22
Operations on the female reproductive system	14,577	7,094	5,389	1,004	497	452	141
Oophorectomy and salpingo-oophorectomy	3,531	2,047	982	271	83	114	34
Hysterectomy	3,143	1,764	867	295	75	109	33
Obstetrical procedures	73,873	34,350	28,556	4,772	2,532	2,833	830
Episiotomy with or without forceps or vacuum extraction	2,814	1,317	1,047	184	80	141	45
Artificial rupture of membranes	19,724	9,447	7,325	1,257	772	699	224
Cesarean section	20,506	9,742	7,507	1,438	684	900	235
Other therapeutic procedures - Imaging	48,237	34,579	8,576	2,165	1,545	831	541
Computerized tomography (CT Scan)	565	339	142	31	22	11	20
Magnetic resonance imaging (MRI)	922	464	293	60	64	21	20
Other therapeutic procedures - Nuclear medicine	210	137	48	8	8	6	*
Other therapeutic procedures - Radiation therapy	200†	147	24	16	7	*	0
Extracorporeal assistance and performance	45,243	29,584	8,813	2,742	2,607	861	636
Hemodialysis	10,410	4,930	2,888	1,044	1,228	231	89

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, 2017**

Procedures by category	Total	Self-pay	Private insurance (indemnity, HMO, PPO)	AHCCCS/Medicaid	Medicare	Other
All procedures	1,030,375	21,833	269,756	279,602	315,463	143,721
Operations on the central nervous system	15,783	257	4,643	5,049	3,891	1,943
Spinal tap	6,893	131	1,935	2,621	1,496	710
Operations on the peripheral nervous system	4,147	89	1,069	833	1,460	696
Operations on the heart and great vessels	58,084	748	10,831	11,958	25,064	9,483
Heart transplant	60+	0	28	17	11	*
Coronary artery bypass graft	3,430	37	811	387	1,572	623
Cardiac catheterization	18,983	390	4,031	2,851	8,304	3,407
Insertion, replacement, removal, of pacemaker leads	4,464	41	470	362	2,610	981
Operations on the upper arteries	10,934	175	1,789	2,234	4,920	1,816
Operations on the lower arteries	6,580	61	1,005	1,125	3,133	1,256
Operations on the upper veins	9,404	109	1,398	2,415	3,659	1,823
Operations on the lower veins	9,483	140	2,108	2,336	3,443	1,456
Operations on the lymphatic and hemic systems	8,713	91	2,604	1,418	3,226	1,374
Operations on the eye	522	16	101	231	123	51
Operations on the ear, nose, sinus	841	19	277	266	198	81
Operations on the respiratory system	29,848	522	5,515	7,837	11,422	4,552
Bronchoscopy with or without biopsy	5,439	60	896	1,278	2,266	939
Operations on the mouth and throat	3,086	108	890	1,121	654	313
Operations on the gastrointestinal system	48,287	841	12,452	10,969	16,436	7,589
Implantation of gastric band	10+	0	*	6	*	*
Endoscopy of small intestine with or without biopsy	11,397	162	2,186	2,719	4,363	1,967
Endoscopy of large intestine with or without biopsy	7,827	109	1,617	1,497	3,219	1,385
Appendectomy, excluding incidental	3,765	194	1,470	1,261	556	284
Operations on the hepatobiliary system and pancreas	13,210	287	3,648	3,285	4,130	1,860
Cholecystectomy	7,593	217	2,286	2,080	2,055	955
Operations on the endocrine system	1,087	11	397	217	336	126
Operations on the skin and breast	21,211	693	6,604	9,019	3,046	1,849
Breast surgery	832	29	358	131	214	100

**TABLE 4B-4 (continued)  
NUMBER OF PROCEDURES BY CATEGORY AND EXPECTED SOURCE OF PAYMENT, ARIZONA, 2017**

Procedures by category	Total	Self-pay	Private insurance (indemnity, HMO, PPO)	AHCCCS/Medicaid	Medicare	Other
Operations on the subcutaneous tissue and fascia	22,750	447	4,269	6,523	8,179	3,332
Operations on the musculoskeletal system	83,208	1,368	24,131	16,111	27,968	13,630
Open reduction of fracture with or without internal fixation□	7,090	152	1,307	1,485	2,826	1,320
Total hip replacement	8,868	57	2,504	569	4,049	1,689
Total knee replacement	15,540	54	4,167	972	7,078	3,269
Operations on the urinary system	16,869	337	4,115	3,417	6,557	2,443
Kidney transplant	260†	*	100	12	140	*
Operations on the male reproductive system	7,998	175	4,576	1,567	984	696
Prostatectomy	1,981	9	733	77	811	351
Operations on the female reproductive system	14,577	426	5,975	6,671	839	666
Oophorectomy and salpingo-oophorectomy	3,531	147	1,596	977	542	269
Hysterectomy	3,143	127	1,518	814	453	231
Obstetrical procedures	73,873	2,123	31,674	37,512	166	2,398
Episiotomy with or without forceps or vacuum extraction	2,814	140	1,186	1,354	8	126
Artificial rupture of membranes	19,724	521	8,336	10,161	36	670
Cesarean section	20,506	558	9,327	9,886	58	677
Other therapeutic procedures - Imaging	48,237	915	9,948	9,297	19,634	8,443
Computerized tomography (CT Scan)	565	10	129	176	153	97
Magnetic resonance imaging (MRI)	922	13	301	460	76	72
Other therapeutic procedures - Nuclear medicine	210†	*	47	66	63	30
Other therapeutic procedures - Radiation therapy	200†	*	74	25	64	32
Extracorporeal assistance and performance	45,243	698	7,231	10,588	19,009	7,717
Hemodialysis	10,410	76	1,008	1,849	5,427	2,050

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**

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This section focuses 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.

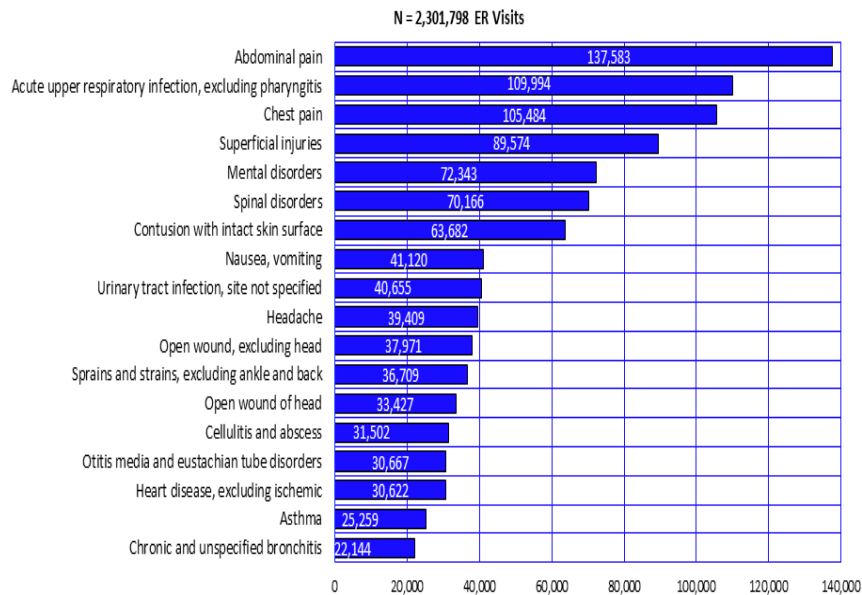
All emergency room visits are those of the residents of Arizona. Ambulatory care visits to hospital emergency rooms of out-of-state residents are not included in this report. In the current report, diagnostic groupings and code numbers are solely based on the International Classification of Diseases and Related Problems, 10th Revision, Clinical Modification ICD-10-CM. Prior to 2015, the International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) was used to classify diseases and related health problems. On October 1, 2015, the US healthcare system transitioned from ICD-9-CM to ICD-10-CM, thus both ICD-9-CM and ICD-10-CM were used in the 2015 report of ER visits.

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, 2017**



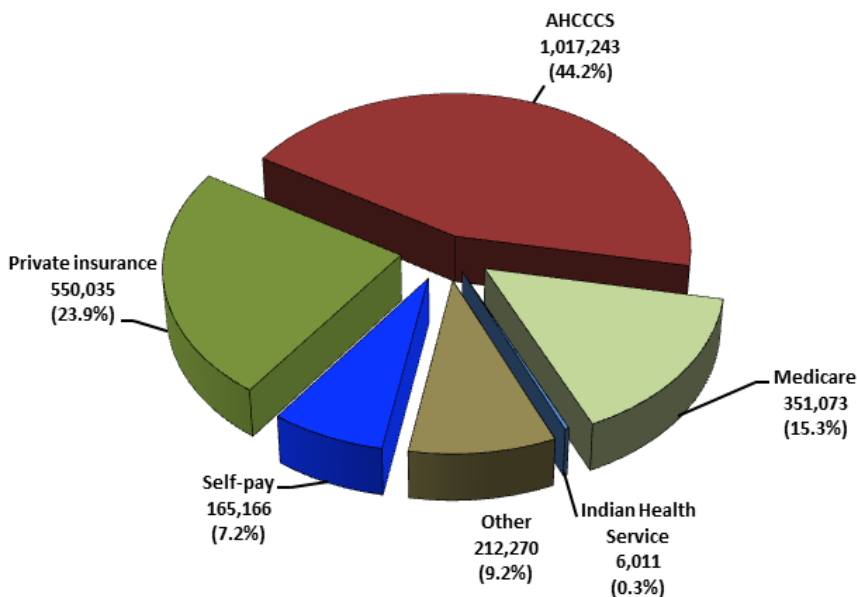
During 2017, more than 2.0 million visits were made by Arizona residents to hospital emergency rooms (ER), about 33.0 visits per 100 persons. The utilization rates vary by geographic region, with the Western United States having the lowest ER visit rate.

In 2017, *abdominal pain, acute upper respiratory infection, chest pain, superficial injuries, mental disorders, spinal disorders, and contusion with intact skin surface*, were the leading diagnostic categories, accounting for 28.1 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, 2017**



The Arizona Health Care Cost Containment System (AHCCCS, the State's Medicaid program) was the most frequently recorded expected source of payment, accounting for 44.2 percent of ER visits (**Figure 4C-3**). Private insurance was the second most frequent payer (23.9 percent of ER visits), followed by Medicare (15.3 percent), and self-pay patients (7.2 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  
NUMBER OF EMERGENCY ROOM VISITS BY FIRST-LISTED DIAGNOSIS AND AGE GROUP, ARIZONA, 2017**

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	
<b>Total, all causes</b>	2,301,798	423,615	133,521	831,004	507,472	406,139	47
<b>Infectious and parasitic diseases</b>	50,458	22,132	3,123	13,925	6,724	4,554	0
<b>Neoplasms</b>	5,036	215	69	1,308	1,665	1,779	0
<b>Endocrine nutritional metabolic and immunity diseases</b>	55,043	2,542	1,887	19,172	18,130	13,311	*
<b>Diabetes mellitus</b>	16,014	546	450	4,854	6,334	3,830	0
<b>Mental disorders</b>	72,343	2,996	5,645	37,511	19,696	6,478	17
<b>Psychoses</b>	45,588	994	3,284	23,893	13,562	3,838	17
<b>Alcoholic psychoses</b>	2,500†	*	17	1,383	979	116	*
<b>Drug psychoses</b>	897	9	69	619	184	16	0
<b>Schizophrenic disorders</b>	810†	*	21	500	244	42	0
<b>Manic-depressive disorders</b>	8,229	716	1,387	3,490	1,981	654	*
<b>Neurotic disorders</b>	62,603	2,841	5,090	32,434	17,354	4,871	13
<b>Anxiety states</b>	18,737	519	1,370	10,354	4,485	2,009	0
<b>Depression</b>	6,360	568	1,209	2,612	1,468	502	*
<b>Drug dependence</b>	3,378	7	106	2,039	922	304	0
<b>Nondependent abuse of drugs</b>	8,685	96	659	5,709	1,999	222	0
<b>Alcohol dependence</b>	6,130†	*	24	3,063	2,666	379	0
<b>Diseases of the nervous system</b>	67,585	3,277	3,310	30,258	19,860	10,878	*
<b>Diseases of the eye and adnexa<sup>b</sup></b>	22,202	6,219	999	7,217	4,681	3,086	0
<b>Diseases of the ear and mastoid process<sup>b</sup></b>	47,765	27,687	2,065	9,678	4,953	3,382	0
<b>Diseases of the circulatory system</b>	68,108	1,206	687	10,130	21,920	34,158	7
<b>Diseases of the respiratory system</b>	253,087	103,614	14,445	65,700	38,519	30,809	0
<b>Acute bronchitis and bronchiolitis</b>	29,881	11,378	927	7,826	5,534	4,216	0
<b>Pneumonia</b>	20,450	5,503	664	4,484	4,722	5,077	0
<b>Chronic bronchitis</b>	12,115	17	12	497	5,195	6,394	0
<b>Asthma</b>	25,259	9,510	1,848	8,416	4,042	1,443	0
<b>Diseases of the digestive system</b>	159,775	23,475	7,395	64,455	37,475	26,975	0
<b>Diseases of the genitourinary system</b>	140,342	11,134	9,609	64,370	29,539	25,690	0
<b>Diseases of the skin and subcutaneous tissue</b>	85,223	15,595	5,001	34,219	19,566	10,842	0
<b>Diseases of the musculoskeletal system</b>	170,519	9,370	6,702	64,257	53,977	36,213	0
<b>Symptoms signs and ill-defined conditions</b>	545,474	78,488	28,372	190,954	135,836	111,816	8
<b>Injury and poisoning</b>	453,651	103,066	35,015	149,000	87,756	78,803	11
<b>Fractures, all sites</b>	64,962	14,965	4,081	17,268	14,104	14,544	0
<b>Sprains</b>	48,331	7,895	5,429	19,607	10,133	5,267	0
<b>Intracranial</b>	12,230	2,876	1,765	3,729	1,811	2,049	0
<b>Open wounds</b>	87,899	23,295	5,885	28,343	14,688	15,680	8
<b>Superficial injuries</b>	89,574	20,841	6,569	28,343	16,941	16,879	*
<b>Contusions with intact skin surface</b>	63,682	12,680	4,719	20,154	12,476	13,652	*
<b>Foreign bodies</b>	10,220	4,415	429	2,479	1,653	1,244	0
<b>Burns and corrosions</b>	7,343	2,072	564	2,833	1,390	484	0
<b>Trauma complications and unspecified injuries</b>	28,147	10,240	1,949	6,155	3,892	5,910	*
<b>Poisonings</b>	12,100	1,870	1,722	4,984	2,297	1,227	0
<b>Surgical and medical complications</b>	13,443	907	334	3,018	3,719	5,465	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.

Correction: Due to a processing error in the 2016 print version of this report, the total number of asthma discharges was reported to be 38,172 instead of 26,713 (children <15 = 10,149, adolescents 15-19 = 1,846, young adults 20-44 = 9,077, middle-aged adult 45-64 = 4,256, and elderly 65+ = 1,385).

**TABLE 4C-2  
NUMBER OF EMERGENCY ROOM VISITS FOR THE LEADING DIAGNOSIS GROUPS<sup>a</sup> AND AGE GROUP, ARIZONA, 2017**

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	
<b>Total, all causes</b>	2,301,798	423,615	133,521	831,004	507,472	406,139	47
<b>Abdominal pain</b>	137,583	16,881	9,494	63,772	31,444	15,990	*
<b>Acute upper respiratory infection, excluding pharyngitis</b>	109,994	60,328	4,658	24,872	12,171	7,965	0
<b>Chest pain</b>	105,484	2,584	3,418	34,862	39,078	25,542	0
<b>Superficial injuries</b>	89,574	20,841	6,569	28,343	16,941	16,879	*
<b>Mental disorders</b>	72,343	2,996	5,645	37,511	19,696	6,478	17
<b>Spinal disorders</b>	70,166	1,671	2,200	29,147	22,828	14,320	0
<b>Contusion with intact skin surface</b>	63,682	12,680	4,719	20,154	12,476	13,652	*
<b>Nausea, vomiting</b>	41,120	14,596	2,477	13,880	5,985	4,181	*
<b>Urinary tract infection, site not specified</b>	40,655	5,461	2,432	13,434	7,681	11,647	0
<b>Headache</b>	39,409	3,183	2,776	18,844	10,061	4,545	0
<b>Open wound, excluding head</b>	37,971	4,420	3,132	16,445	7,772	6,198	*
<b>Sprains and strains, excluding ankle and back</b>	36,709	5,381	3,441	14,795	8,473	4,619	0
<b>Open wound of head</b>	33,427	12,499	2,296	7,311	4,460	6,860	*
<b>Cellulitis and abscess</b>	31,502	3,536	1,090	12,153	8,977	5,746	0
<b>Otitis media and eustachian tube disorders</b>	30,667	23,716	1,132	4,035	1,331	453	0
<b>Heart disease, excluding ischemic</b>	30,622	248	214	3,665	9,333	17,155	7
<b>Asthma</b>	25,259	9,510	1,848	8,416	4,042	1,443	0
<b>Chronic and unspecified bronchitis</b>	22,144	546	430	4,188	8,189	8,791	0
<b>Gastroenteritis and colitis</b>	22,019	5,901	1,163	7,535	4,232	3,188	0
<b>Rheumatism, excluding back</b>	21,939	1,019	814	8,563	7,006	4,537	0
<b>Acute pharyngitis</b>	20,645	7,069	2,680	8,253	1,852	791	0
<b>Pneumonia</b>	20,450	5,503	664	4,484	4,722	5,077	0
<b>Fever</b>	18,449	14,277	471	1,671	1,005	1,025	0
<b>Migraine</b>	18,052	792	1,442	10,277	4,840	701	0
<b>Sprains and strains of neck and back</b>	4,009	194	308	2,153	973	381	0
<b>Unspecified viral and chlamydial infection</b>	242	50	42	130	12	8	0

Notes: \* Cell suppressed due to non-zero count less than 6; <sup>a</sup> Based on first-listed diagnosis.

**Correction:** Due to a processing error in the 2016 print version of this report, the total number of asthma discharges was reported to be 38,172, instead of 26,713 (children <15 = 10,149, adolescents 15-19 = 1,846, young adults 20-44 = 9,077, middle-aged adult 45-64 = 4,256, elderly 65+ = 1,385).



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

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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).

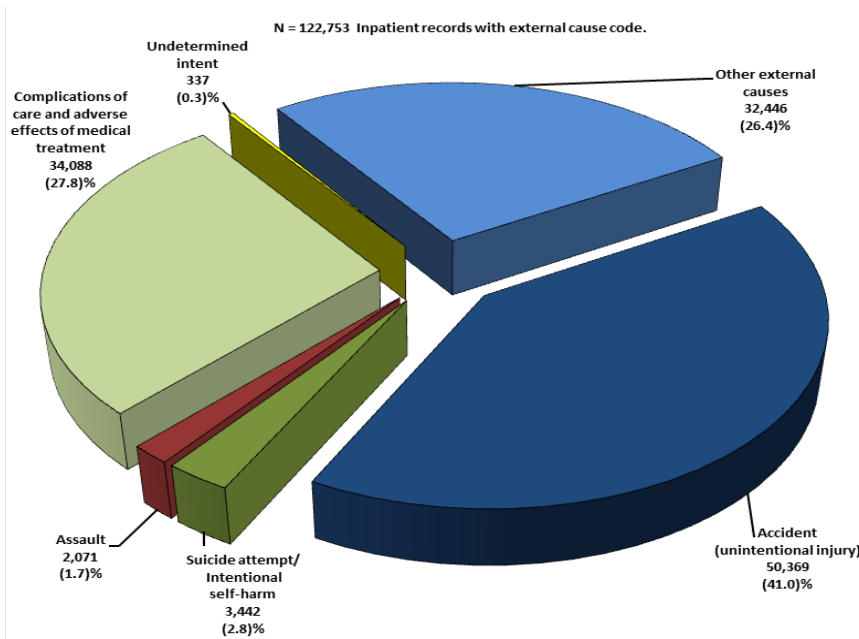
In 2009, the reporting requirements for hospitals were revised and the non-injury first-listed diagnoses may also have an external cause of injury code (E-code). Beginning with the 2009 edition of this report, the reader is advised that the number of suicides, accidents, etc. shown in **Table 4D-1** 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.

In 2015, injury hospitalizations and injury-related emergency room visits data were recorded and classified using ICD-9-CM in the first three quarters of the year and ICD-10-CM in the last quarter. Under ICD-10-CM, 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). For further explanation of ICD-10-CM transition, please refer to “The Implementation of the International Classification of Disease, Tenth Revision,” Introduction page ix.

Beginning 2016, injury hospitalizations and injury-related emergency room visits are coded exclusively based on ICD-10-CM, external causes of morbidity. Readers are advised to avoid comparison of current year data to years prior to 2015 due to a changeover in coding from ICD-9-CM and ICD-10-CM.

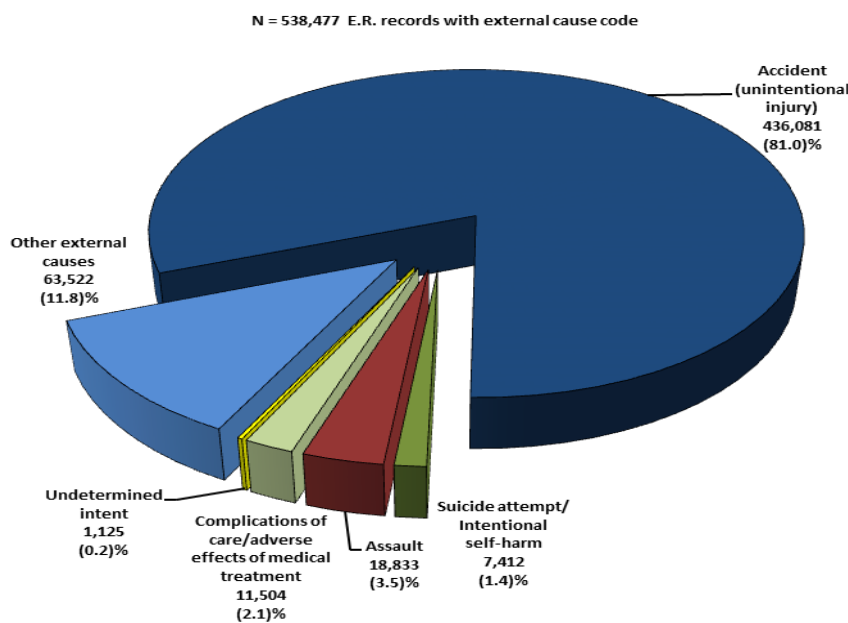
4D. INJURY-RELATED INPATIENT DISCHARGES AND EMERGENCY ROOM VISITS BY INTENT AND MECHANISM OF INJURY

**Figure 4D-1**  
**Percent Distribution of Inpatient Discharges by Intent of Injury,**  
**Arizona Residents, 2017**



In 2017, injury was indicated as the principal diagnosis on 60,573 inpatient discharge records (**Table 4A-1**). *Unintentional injuries or accidents* accounted for the absolute majority of inpatient hospitalizations by the intent of injury (41.0 percent) and *complications of medical care and adverse effects of medical treatment* accounted for 27.8 percent of all inpatient discharges by intent of injury. *Assault* accounted for 2,071 inpatient hospitalizations (1.7 percent of all hospital discharges with known intent of injury). *Intentional self-inflicted injuries* including *suicide attempt* resulted in 3,442 inpatient hospitalizations (2.8 percent).

**Figure 4D-2**  
**Percent Distribution of Emergency Room Visits by Intent of Injury,**  
**Arizona Residents, 2017**



In 2017 *Unintentional injuries or accidents* accounted for eight out of ten (436,081 or 81.0 percent) of all injury-related emergency room visits (**Figure 4D-3, Table 4D-2**). The external cause of injury was classified as *assault* for 18,833 emergency room visits: these were the injuries purposely inflicted by another person. *Complications of medical/surgical care* accounted for a greater number of emergency room visits than *intentional self-inflicted injuries* (2.1 percent vs. 1.4 percent, respectively; **Figure 4D-3, Table 4D-2**).



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

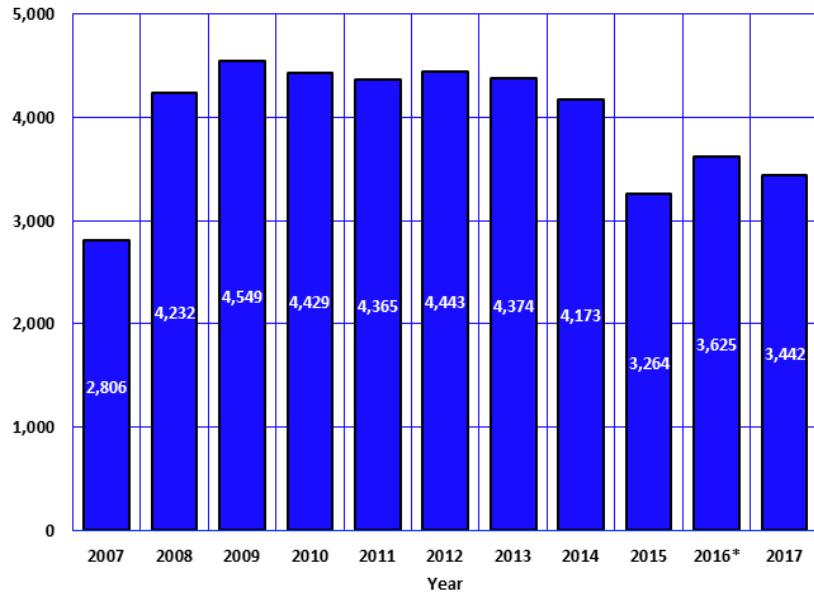
Self-inflicted injuries result from actions of individuals trying to deliberately harm themselves (i.e. behavior with no suicide intent) or kill themselves (i.e. suicide attempt). Beginning in 2008, there was a substantial increase in the number of *intentional self-inflicted injuries* related inpatient 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 2017 there were 3,442 inpatient discharges attributed to intentional self-inflicted injuries

*Mental disorders* were identified as the principal diagnosis on 738 intentional self-inflicted injury/ suicide attempt-related records.

*Injury or poisoning* was the principal diagnosis on 2,261 inpatient discharge records related to self-inflicted injuries

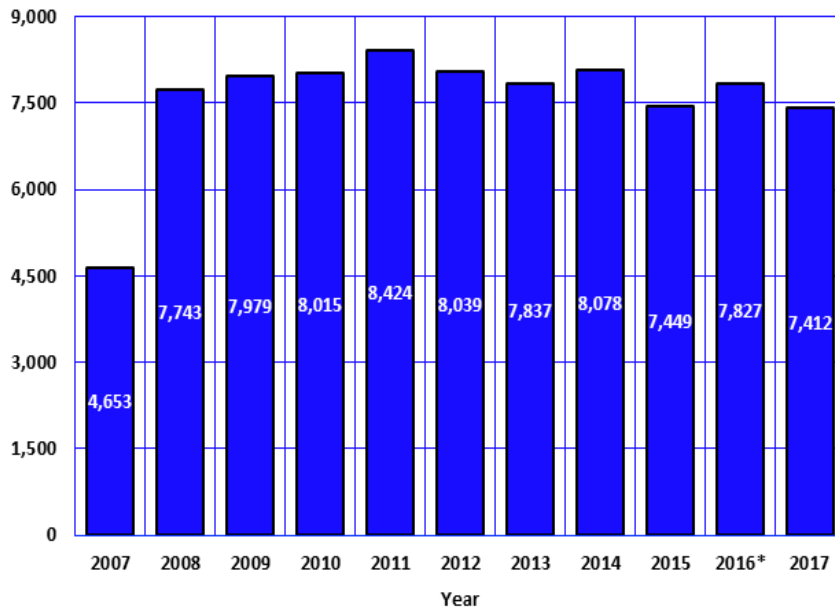
**Figure 4D-3**  
Intentional self-inflicted injury Inpatient Discharges by Year, Arizona Residents, 2007–2017



Note: \* Due to revision in coding, the 2016 total number of suicide attempt/intentional self-harm related inpatient discharges have been updated from 1,185 to 3,625.

**Figure 4D-4**  
Intentional self-inflicted injury Emergency Room Visits by Year, Arizona Residents, 2007–2017

In 2017, self-inflicted injuries resulting in ER visits accounted for 7,412, a decrease of 5.3 percent from 2016. Of all the ER visits related to *intentional self-inflicted injuries*, *mental disorders* were identified as the principal diagnosis on 380 ER discharges. *Injury or poisoning* was recorded as the principal diagnosis on 6,601 (88.3 percent) ER discharges related to self-inflicted injury.



Note: \* Due to revision in coding, the 2016 total number of suicide attempt/intentional self-harm related E.R. visits have been updated from 3,379 to 7,827.

**TABLE 4D-1  
INPATIENT DISCHARGES BY INTENT AND MECHANISM FOR SELECTED EXTERNAL CAUSES BY GENDER, AGE GROUP, AND  
RACE/ETHNICITY, ARIZONA, 2017**

	Total <sup>a</sup>	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
<b>UNINTENTIONAL INJURY OR ACCIDENT</b>	50,369	24,842	25,522	*	1,560	1,083	7,753	11,383	28,588	*	38,213	7,585	1,573	1,800	623	575
<b>Falls</b>	31,540	13,252	18,288	0	516	141	1,769	5,726	23,388	0	25,726	3,681	633	817	377	306
<b>Transport accidents</b>	8,232	5,237	2,990	*	397	581	3,097	2,336	1,820	*	5,357	1,784	396	413	120	162
<b>Natural and environmental factors</b>	5,153	2,952	2,201	0	206	123	1,063	1,630	2,130	*	3,684	877	264	231	59	38
<b>Exposure to excessive natural heat</b>	430 <sup>†</sup>	335	92	0	*	7	138	163	117	0	262	97	40	16	*	7
<b>Fire and flames</b>	370 <sup>†</sup>	246	127	0	46	17	121	118	71	0	214	93	24	31	*	6
<b>Machinery</b>	220 <sup>†</sup>	194	22	0	0	*	88	91	32	0	126	74	9	*	*	*
<b>SUICIDE ATTEMPT AND INTENTIONAL SELF-HARM</b>	3,442	1,485	1,957	0	230	545	1,601	828	238	0	2,312	689	177	169	49	46
<b>ASSAULT</b>	2,071	1,622	449	0	50	165	1,247	502	106	*	853	573	260	316	22	47
<b>INJURIES OF UNDETERMINED INTENT</b>	340 <sup>†</sup>	206	131	0	73	25	116	78	45	0	198	82	20	23	*	10
<b>COMPLICATIONS OF CARE AND ADVERSE EFFECTS OF MEDICAL TREATMENT</b>	34,088	18,066	16,022	0	788	398	5,027	11,462	16,413	0	24,269	5,811	1,763	1,342	665	238
<b>Misadventures to patients</b>	595	297	298	0	16	31	186	170	192	0	408	110	28	33	13	*
<b>Surgical and medical procedures as the cause of adverse reaction</b>	30,053	15,983	14,070	0	707	346	4,450	10,239	14,311	0	21,302	5,175	1,587	1,203	576	210

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; <sup>a</sup> 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, 2017**

	Total <sup>a</sup>	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	
<b>UNINTENTIONAL INJURY OR ACCIDENT</b>	436,081	218,435	217,614	32	98,155	31,795	139,153	85,481	81,483	14	256,870	123,234	29,136	16,357	6,795	3,689	
<b>Falls</b>	155,634	68,584	87,045	*	40,054	5,763	27,166	30,095	52,554	*	101,613	37,782	7,386	5,534	2,204	1,115	
<b>Transport accidents</b>	69,892	34,915	34,958	19	8,767	7,938	32,991	14,597	5,592	7	37,866	21,122	6,506	2,201	1,390	807	
<b>Struck against or struck accidentally by objects or persons</b>	55,950	32,205	23,745	0	18,693	6,156	17,311	8,268	5,522	0	30,698	17,644	4,074	2,250	783	501	
<b>Overexertion</b>	33,597	16,825	16,771	*	4,676	3,404	14,727	7,365	3,425	0	18,868	9,905	2,672	1,427	493	232	
<b>Cutting or piercing instruments or objects</b>	23,335	15,165	8,169	*	3,350	1,842	10,196	5,082	2,863	*	14,053	6,639	1,179	857	375	232	
<b>Natural and environmental factors</b>	58,727	29,603	29,123	*	11,414	3,761	21,813	12,823	8,915	*	32,490	17,818	4,672	2,358	913	476	
<b>Exposure to excessive natural heat</b>	1,761	1,218	543	0	105	97	807	490	262	0	1,033	487	131	73	20	17	
<b>Fire and flames</b>	2,457	1,395	1,062	0	607	172	1,029	486	163	0	1,305	770	175	137	49	21	
<b>Machinery</b>	2,155	1,887	265	*	89	111	962	639	353	*	1,298	708	58	49	28	14	
<b>Pedal cycle, nontraffic and other</b>	6,224	4,580	1,643	*	1,861	461	1,956	1,442	504	0	4,037	1,538	279	205	97	68	
<b>Motor vehicle, nontraffic</b>	850	572	278	0	156	88	344	182	80	0	544	204	45	42	10	*	
<b>Firearm missile</b>	850†	731	122	*	118	126	449	110	51	0	397	318	89	33	*	13	
<b>Drowning/submersion</b>	150†	88	62	0	134	*	7	*	*	*	74	60	8	*	*	*	
<b>SUICIDE ATTEMPT AND INTENTIONAL SELF-HARM</b>	7,412	2,789	4,622	*	807	1,854	3,420	1,117	214	0	4,626	1,794	488	364	84	56	
<b>ASSAULT</b>	18,833	11,154	7,678	*	899	1,914	11,998	3,640	379	*	8,197	5,678	2,254	2,282	230	192	
<b>INJURIES OF UNDETERMINED INTENT</b>	1,125	610	515	0	270	128	518	151	58	0	596	344	92	72	10	11	
<b>COMPLICATIONS OF CARE AND ADVERSE EFFECTS OF MEDICAL TREATMENT</b>	11,504	6,160	5,344	0	624	261	2,802	3,295	4,522	0	7,706	2,501	662	371	203	61	
<b>Misadventures to patients</b>	110†	61	45	0	13	*	24	29	39	0	59	28	8	9	*	*	
<b>Surgical and medical procedures as the cause of adverse reaction</b>	9,903	5,249	4,654	0	543	236	2,503	2,827	3,794	0	6,614	2,206	555	306	170	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; <sup>a</sup> the total may include records with unknown gender and/or age group.