

# **CHAPTER 4**

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

### **2010 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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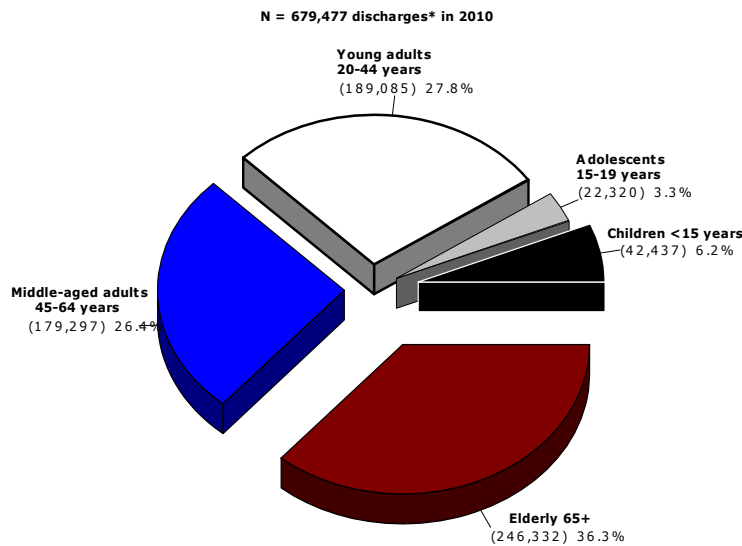
An inpatient discharge occurs when a person who was admitted to a hospital leaves that hospital. A person who has been hospitalized more than once in a given calendar year will be counted multiple times as a discharge; thus, the numbers in this report are for discharges, not persons. Federal, military 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. Diagnostic groupings and code numbers are based on the International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM).

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

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

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

**Figure 4A-1**  
Hospital Inpatient Discharges by Age Group, Arizona Residents, 2010



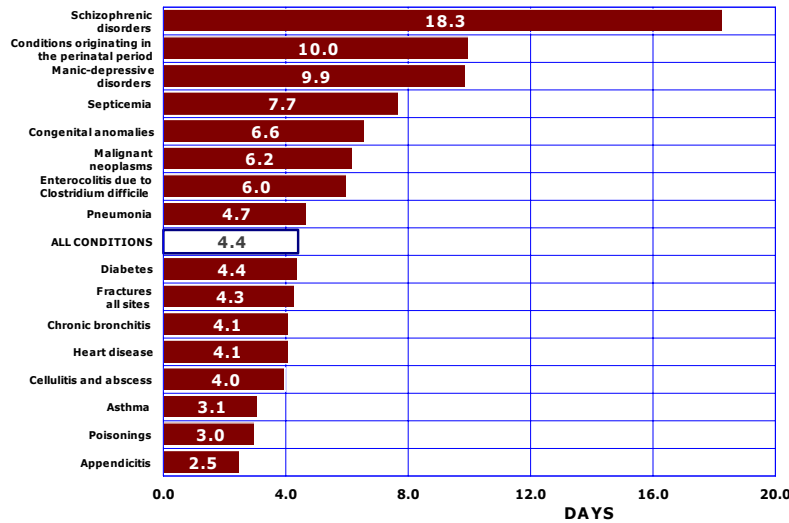
\*Excluding newborn infants.

In 2010, there were 679,477 inpatients discharged, excluding newborn infants, from non-Federal short stay hospitals in Arizona (Table 4A-1). Patients who were elderly (65 years or older) accounted for 36.3 percent of hospital discharges (Figure 4A-1), followed by young adults (20-44 years old) who comprised 27.8 percent of discharges, and middle-aged adults 45-64 year olds (26.4 percent of all inpatient discharges)

The discharge rate for all ages was 1063.0 per 10,000 resident population, 4.2 percent greater than the 2009 rate. The discharge rate of 1241.3 for females was 1.4 times greater than the rate of 882.3 for males

Diseases of the circulatory system were the most common diagnoses (14.5 percent of all discharges), followed by digestive system diagnoses (11.3 percent), and injury diagnoses (9.9 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, 2010



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 2006. In 1970, the average length of stay was 7.8 days, with one-third of patients hospitalized for 8 days or more. In 2006, the average length of stay decreased nationally to 4.8 days, with 58 percent of inpatients staying 3 days or fewer.

In 2010, the average length of hospital stay for Arizona inpatients was 4.4 days (Figure 4A-2, Table 4A-5). The percent of patients hospitalized for 3 days or less increased to 73.4 percent, with 21.2 percent of inpatients staying 8 days or more.

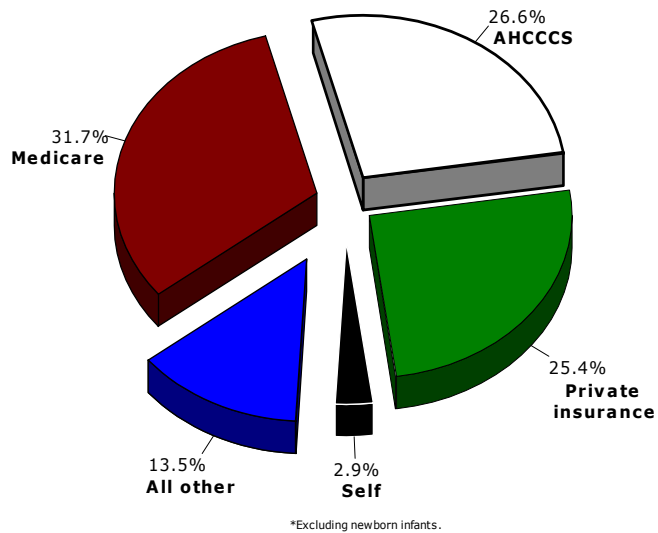
The average length of stay was 4.1 days for heart disease, 4.4 days for diabetes, 6.2 days for cancer, and 18.3 days for schizophrenic disorders.

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

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

**Figure 4A-3**  
Hospital Inpatient Discharges by Payer, Arizona Residents, 2010

Medicare paid for 71.6 percent of inpatient discharges of persons aged 65 years or older (Table 4A-4) and 31.7 percent of all discharges (Figure 4A-3). The Arizona Health Care Cost Containment System (the State's Medicaid Program) was the second most frequently recorded expected source of payment, accounting for 26.6 percent of inpatient discharges. Private insurance accounted for 25.4 percent.

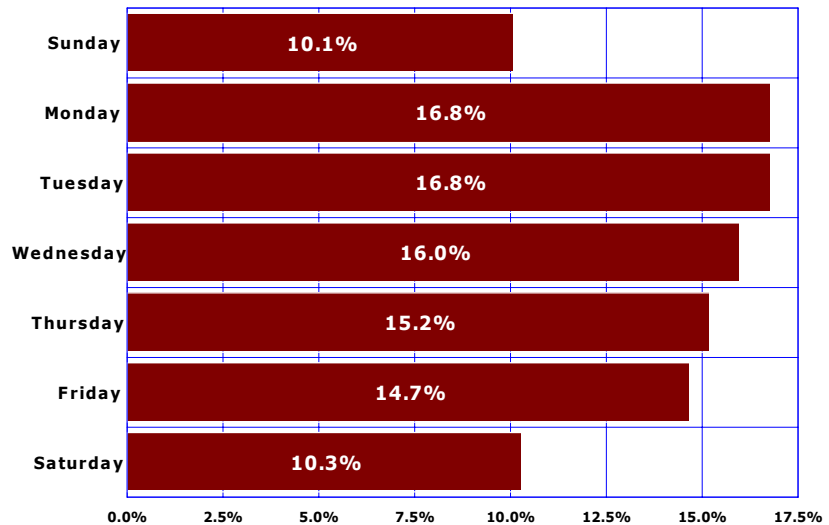


Indemnity, HMO, PPO.

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

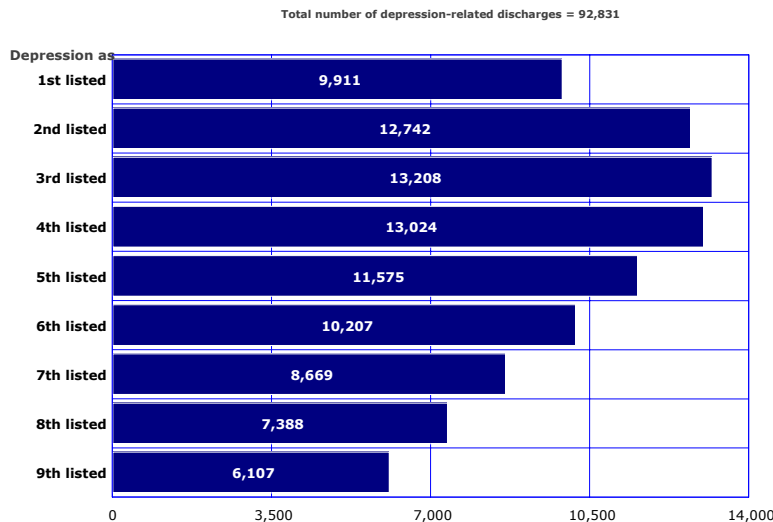
**Figure 4A-4**  
Percent of Hospital Inpatient Admissions by Day of the Week, Arizona Residents, 2010

The rhythm of hospital births by day of the week (see Figure 1B-14) reveals that the daily average of resident live births in 2010 was substantially lower at 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, 2010**



ICD-9-CM diagnostic codes 300.4 and 311.

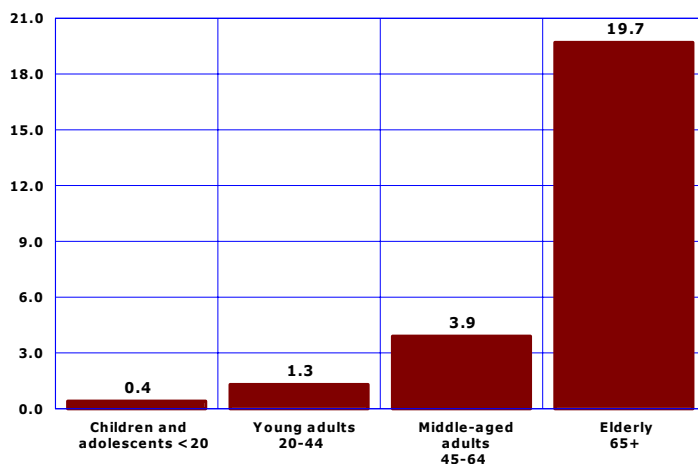
In 2010, the ICD-9-CM diagnostic codes 300.4 and 311 for depression were used on 1,226 inpatient discharge and 8,685 emergency room records as the first-listed diagnosis (for a total of 9911 hospital encounters; **Figure 4A-5, Table 4A-1, Table 7C-1**).

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 92,831 inpatient discharge and emergency room records. In fact, the depression diagnosis was substantially more frequently present as 2<sup>nd</sup> – 5<sup>th</sup> 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, 2010**



In 2010, 2,702 Arizonans were hospitalized with the diagnosis of enterocolitis due to *Clostridium difficile*, a bacterial inflammation of the intestines (**Table 4A-1**). The disease is of growing public health concern because it is often acquired in hospitals and other health care institutions with long-term patients as residents.

The inpatient hospitalization rates associated with enterocolitis due to *Clostridium difficile* tend to increase with age. The rate for the elderly 65 years or older (19.7/10,000) was 49.2 times greater than the rate for children and adolescents (**Figure 4A-6**).

The disparity in enterocolitis-related hospitalization rates was 1.7 times as high for females (5.3 inpatient discharges per 10,000) as for males (3.1/10,000).

In 2010, 218 Arizonans died from enterocolitis due to *Clostridium difficile* (**Table 2B-6**). Elderly 65 years or older accounted for 91.7 percent of these deaths (**Table 2C-27**).

TABLE 4A-1  
NUMBER OF DISCHARGES\* BY FIRST-LISTED DIAGNOSIS AND AGE GROUP, ARIZONA, 2010

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>	679,477	42,437	22,320	189,085	179,297	246,332	6
Infectious and parasitic diseases	27,949	2,000	536	4,714	8,162	12,537	0
Septicemia	15,646	182	156	2,019	4,670	8,619	0
Enterocolitis due to Clostridium difficile	2,702	57	20	269	618	1,738	0
Neoplasms	27,341	448	235	4,042	10,808	11,808	0
Malignant neoplasms	20,566	327	132	1,942	7,955	10,210	0
Large intestine	2,316	0	1	119	772	1,424	0
Prostate	1,813	0	0	21	959	833	0
Trachea bronchus and lung	2,511	5	7	88	774	1,637	0
Breast	1,409	0	0	209	654	546	0
Benign neoplasms	5,771	91	73	1,929	2,550	1,128	0
Endocrine nutritional metabolic and immunity diseases	25,719	1,774	661	6,078	8,783	8,423	0
Diabetes mellitus	11,117	446	450	3,286	4,241	2,694	0
Volume depletion	94	1	0	5	31	57	0
Morbid obesity	1,764	0	6	772	824	162	0
Diseases of the blood and blood forming organs	7,130	736	201	1,523	1,927	2,743	0
Mental disorders	18,703	446	660	8,507	6,597	2,493	0
Psychoses	14,160	269	403	6,449	5,065	1,974	0
Alcoholic psychoses	2,079	0	4	810	1,049	216	0
Drug psychoses	938	1	24	425	318	170	0
Schizophrenic disorders	2,787	0	60	1,608	992	127	0
Manic-depressive disorders	6,701	248	247	3,051	2,371	784	0
Neurotic disorders	4,538	176	257	2,055	1,531	519	0
Anxiety states	531	18	13	168	191	141	0
Depression	1,226	13	57	597	440	119	0
Drug dependence	171	0	11	104	45	11	0
Nondependent abuse of drugs	523	11	41	261	169	41	0
Alcohol dependence syndrome	723	0	3	288	350	82	0
Diseases of the nervous system	15,604	1,830	602	3,975	4,472	4,724	1
Diseases of the circulatory system	98,621	371	273	6,612	29,812	61,551	2
Heart disease	63,546	180	158	3,732	19,278	40,197	1
Acute myocardial infarction	10,240	0	5	492	3,765	5,978	0
Coronary atherosclerosis	12,976	1	0	372	5,193	7,410	0

TABLE 4A-1 (continued)  
 NUMBER OF DISCHARGES\* BY FIRST-LISTED DIAGNOSIS AND AGE GROUP, ARIZONA, 2010

Category of first-listed diagnosis	Total	Age group					Unknown
		Children <15 years	Adolescents 15-19 years	Young adults 20-44 years	Middle-aged adults 45-64 years	Elderly 65+ years	
Other ischemic heart disease	1,190	1	2	91	521	575	0
Cardiac dysrhythmias	15,683	84	70	988	3,825	10,716	0
Cardiac arrest	170	6	1	23	56	84	0
Congestive heart failure	4,042	30	7	206	945	2,854	0
Cerebrovascular disease	16,999	49	25	813	4,744	11,368	0
Diseases of the respiratory system	60,887	12,369	871	6,293	14,901	26,453	0
Acute bronchitis and bronchiolitis	4,971	3,873	11	210	339	538	0
Pneumonia	18,824	3,272	250	1,990	4,288	9,024	0
Chronic bronchitis	9,601	9	1	209	3,085	6,297	0
Asthma	8,036	2,869	191	1,399	2,013	1,564	0
Diseases of the digestive system	76,963	4,485	2,411	19,988	25,082	24,997	0
Appendicitis	7,926	1,891	1,042	2,927	1,492	574	0
Noninfectious enteritis and colitis	6,464	480	197	1,694	1,887	2,206	0
Diverticula of intestine	5,942	1	8	929	2,131	2,873	0
Cholelithiasis	9,985	89	412	3,987	2,960	2,537	0
Diseases of the genitourinary system	38,602	1,955	738	9,539	10,731	15,639	0
Calculus of kidney and ureter	4,216	37	79	1,498	1,666	936	0
Diseases of the skin and subcutaneous tissue	16,710	1,952	436	4,670	5,577	4,075	0
Cellulitis and abscess	14,422	1,691	365	4,134	4,865	3,367	0
Diseases of the musculoskeletal system	43,129	682	452	5,021	15,978	20,996	0
Osteoarthritis and allied disorders	19,694	5	3	442	7,272	11,972	0
Invertebral disc disorders	5,530	1	22	1,593	2,425	1,489	0
Congenital anomalies	2,729	1,678	150	368	340	193	0
Conditions originating in perinatal period	3,329	3,325	1	2	1	0	0
Symptoms and signs and ill-defined conditions	35,795	2,909	712	6,417	12,370	13,387	0
Injury and poisoning	66,962	4,347	2,604	15,717	19,150	25,143	1
Fractures, all sites	22,405	1,576	860	4,255	4,722	10,992	0
Fracture of neck of femur	5,950	30	10	96	667	5,147	0
Poisonings	7,399	387	527	3,120	2,575	790	0

\*Excluding newborn infants.



TABLE 4A-2  
 NUMBER OF DISCHARGES \* BY FIRST-LISTED DIAGNOSIS AND GENDER, ARIZONA, 2010

Category of first-listed diagnosis	Total	Patient's gender		
		Female	Male	Unknown
All categories	679,477	399,227	280,212	38
Infectious and parasitic diseases	27,949	14,381	13,566	2
Septicemia	15,646	7,918	7,727	1
Enterocolitis due to Clostridium difficile	2,702	1,713	989	0
Neoplasms	27,341	15,667	11,673	1
Malignant neoplasms	20,566	10,348	10,218	0
Large intestine	2,316	1,179	1,137	0
Prostate	1,813	0	1,813	0
Trachea bronchus and lung	2,511	1,205	1,306	0
Breast	1,409	1,396	13	0
Benign neoplasms	5,771	4,792	978	1
Endocrine nutritional metabolic and immunity diseases	25,719	13,902	11,815	2
Diabetes mellitus	11,117	4,995	6,121	1
Volume depletion	94	51	43	0
Morbid obesity	1,764	1,305	458	1
Diseases of the blood and blood forming organs	7,130	4,064	3,066	0
Mental disorders	18,703	8,549	10,154	0
Psychoses	14,160	6,367	7,793	0
Alcoholic psychoses	2,079	471	1,608	0
Drug psychoses	938	429	509	0
Schizophrenic disorders	2,787	1,056	1,731	0
Manic-depressive disorders	6,701	3,618	3,083	0
Neurotic disorders	4,538	2,180	2,358	0
Anxiety states	531	318	213	0
Depression	1,226	597	629	0
Drug dependence	171	75	96	0
Nondependent abuse of drugs	523	181	342	0
Alcohol dependence syndrome	723	212	511	0
Diseases of the nervous system	15,604	8,727	6,877	0
Diseases of the circulatory system	98,621	44,805	53,810	6
Heart disease	63,546	27,358	36,185	3
Acute myocardial infarction	10,240	3,791	6,448	1
Coronary atherosclerosis	12,976	4,431	8,545	0

TABLE 4A-2 (continued)  
 NUMBER OF DISCHARGES \* BY FIRST-LISTED DIAGNOSIS AND GENDER, ARIZONA, 2010

Category of first-listed diagnosis	Total	Patient's gender		
		Female	Male	Unknown
Other ischemic heart disease	1,190	494	696	0
Cardiac dysrhythmias	15,683	7,580	8,102	1
Cardiac arrest	170	83	87	0
Congestive heart failure	4,042	1,846	2,196	0
Cerebrovascular disease	16,999	8,798	8,199	2
Diseases of the respiratory system	60,887	30,821	30,064	2
Acute bronchitis and bronchiolitis	4,971	2,373	2,598	0
Pneumonia	18,824	9,327	9,497	0
Chronic bronchitis	9,601	5,231	4,370	0
Asthma	8,036	4,705	3,331	0
Diseases of the digestive system	76,963	42,042	34,916	5
Appendicitis	7,926	3,576	4,350	0
Noninfectious enteritis and colitis	6,464	4,109	2,355	0
Diverticula of intestine	5,942	3,383	2,559	0
Cholelithiasis	9,985	6,604	3,379	2
Diseases of the genitourinary system	38,602	24,934	13,667	1
Calculus of kidney and ureter	4,216	1,961	2,255	0
Diseases of the skin and subcutaneous tissue	16,710	7,707	9,003	0
Cellulitis and abscess	14,422	6,583	7,839	0
Diseases of the musculoskeletal system	43,129	23,568	19,554	7
Osteoarthritis and allied disorders	19,694	11,422	8,271	1
Intervertebral disc disorders	5,530	2,800	2,728	2
Congenital anomalies	2,729	1,288	1,441	0
Conditions originating in perinatal period	3,329	1,470	1,859	0
Symptoms signs and ill-defined conditions	35,795	19,991	15,804	0
Injury and poisoning	66,962	33,111	33,844	7
Fractures, all sites	22,405	11,954	10,449	2
Fracture of neck of femur	5,950	3,999	1,951	0
Poisonings	7,399	3,973	3,426	0

\*Excluding newborn infants.

TABLE 4A-3  
 NUMBER OF DISCHARGES\* BY FIRST-LISTED DIAGNOSIS AND RACE/ETHNICITY, ARIZONA, 2010

Category of first-listed diagnosis	Total	Race/ethnicity						Other	Refused
		American Indian or Alaska Native	Asian or Pacific Islander	Black or African American	Hispanic or Latino	White non-Hispanic			
<b>Total</b>	679,477	26,405	10,013	31,607	133,117	469,397	86	8,852	
Infectious and parasitic diseases	27,949	1,570	439	1,198	5,347	19,057	3	335	
Septicemia	15,646	1,073	202	550	2,672	10,979	2	168	
Enterocolitis due to Clostridium difficile	2,702	77	23	59	319	2,204	0	20	
Neoplasms	27,341	508	494	1,226	3,903	20,793	1	416	
Malignant neoplasms	20,566	374	322	685	2,580	16,306	1	298	
Large intestine	2,316	41	34	78	292	1,844	0	27	
Prostate	1,813	18	17	73	169	1,515	0	21	
Trachea bronchus and lung	2,511	21	31	72	164	2,198	0	25	
Breast	1,409	12	27	39	182	1,135	0	14	
Benign neoplasms	5,771	109	147	517	1,189	3,706	0	103	
Endocrine nutritional metabolic and immunity diseases	25,719	1,600	297	1,561	5,281	16,711	1	268	
Diabetes mellitus	11,117	994	94	778	2,819	6,329	0	103	
Volume depletion	94	2	1	6	6	79	0	0	
Morbid obesity	1,764	18	4	102	243	1,376	1	20	
Diseases of the blood and blood forming organs	7,130	240	99	989	1,242	4,455	1	104	
Mental disorders	18,703	768	250	1,101	2,774	13,440	2	368	
Psychoses	14,160	496	199	888	2,026	10,282	1	268	
Alcoholic psychoses	2,079	237	8	52	230	1,533	0	19	
Drug psychoses	938	14	10	48	151	704	0	11	
Schizophrenic disorders	2,787	74	57	352	523	1,725	0	56	
Manic-depressive disorders	6,701	133	87	303	880	5,154	0	144	
Neurotic disorders	4,538	272	51	212	747	3,155	1	100	
Anxiety states	531	5	4	22	109	376	1	14	
Depression	1,226	33	16	52	192	901	0	32	
Drug dependence	171	6	1	5	18	141	0	0	
Nondependent abuse of drugs	523	81	2	45	95	293	0	7	
Alcohol dependence syndrome	723	97	0	17	90	512	0	7	
Diseases of the nervous system	15,604	595	179	850	2,664	11,075	3	238	
Diseases of the circulatory system	98,621	2,022	1,125	4,355	12,127	77,846	2	1,144	
Heart disease	63,546	1,258	708	2,507	7,436	50,930	1	706	
Acute myocardial infarction	10,240	248	122	278	1,362	8,106	0	124	
Coronary atherosclerosis	12,976	226	192	399	1,649	10,334	0	176	

TABLE 4A-3 (continued)  
 NUMBER OF DISCHARGES\* BY FIRST-LISTED DIAGNOSIS AND RACE/ETHNICITY, ARIZONA, 2010

Category of first-listed diagnosis	Total	Race/ethnicity							Other	Refused
		American Indian or Alaska Native	Asian or Pacific Islander	Black or African American	Hispanic or Latino	White non-Hispanic				
Other ischemic heart disease	1,190	33	8	68	165	907	0	9		
Cardiac dysrhythmias	15,683	231	149	416	1,417	13,308	1	161		
Cardiac arrest	170	9	4	12	32	109	0	4		
Congestive heart failure	4,042	136	47	224	519	3,079	0	37		
Cerebrovascular disease	16,999	314	218	693	2,118	13,420	0	236		
Diseases of the respiratory system	60,887	2,795	716	3,225	10,938	42,442	8	763		
Acute bronchitis and bronchiolitis	4,971	451	69	274	1,846	2,226	2	103		
Pneumonia	18,824	1,101	249	787	3,335	13,122	3	227		
Chronic bronchitis	9,601	98	41	289	635	8,493	0	45		
Asthma	8,036	294	98	924	1,962	4,651	3	104		
Diseases of the digestive system	76,963	3,332	897	2,977	16,127	52,782	12	836		
Appendicitis	7,926	224	132	228	2,694	4,518	5	125		
Noninfectious enteritis and colitis	6,464	163	76	252	1,006	4,890	1	76		
Diverticula of intestine	5,942	110	40	197	867	4,693	0	35		
Cholelithiasis	9,985	526	118	299	3,024	5,916	2	100		
Diseases of the genitourinary system	38,602	1,335	468	1,624	7,764	26,978	3	430		
Calculus of kidney and ureter	4,216	50	55	94	791	3,183	0	43		
Diseases of the skin and subcutaneous tissue	16,710	1,115	145	664	3,261	11,363	4	158		
Cellulitis and abscess	14,422	994	121	533	2,806	9,845	4	119		
Diseases of the musculoskeletal system	43,129	919	366	1,412	4,685	35,195	2	550		
Osteoarthritis and allied disorders	19,694	236	103	476	1,612	16,998	1	268		
Invertebral disc disorders	5,530	88	55	175	591	4,552	0	69		
Congenital anomalies	2,729	185	45	98	769	1,528	0	104		
Conditions originating in perinatal period	3,329	266	83	154	1,126	1,572	0	128		
Symptoms signs and ill-defined conditions	35,795	1,231	453	2,187	6,420	25,088	3	413		
Injury and poisoning	66,962	3,681	678	2,628	10,532	48,632	5	806		
Fractures, all sites	22,405	1,127	211	589	3,222	16,998	2	256		
Fracture of neck of femur	5,950	136	46	64	508	5,157	0	39		
Poisonings	7,399	310	76	354	1,066	5,481	1	111		

\*Excluding newborn infants.

**TABLE 4A-4  
NUMBER OF DISCHARGES\* BY PRIMARY PAYER, GENDER, AGE GROUP, RACE/ETHNICITY  
AND MARITAL STATUS, ARIZONA, 2010**

Selected characteristics		Total	Self	Private insurance (indemnity, HMO, PPO)	AHCCCS/Medicaid	Medicare	Other
<b>Total</b>		679,477	19,670	172,272	180,424	215,387	91,724
<b>Gender</b>	<b>Female</b>	399,227	9,833	107,202	115,630	115,708	50,854
	<b>Male</b>	280,212	9,834	65,042	64,789	99,677	40,870
	<b>Unknown</b>	38	3	28	5	2	0
<b>Age group</b>	<b>Children &lt;15 years</b>	42,437	1,143	13,006	24,885	45	3,358
	<b>Adolescents 15-19 years</b>	22,320	941	5,857	13,987	88	1,447
	<b>Young adults 20-44 years</b>	189,085	9,887	67,704	88,027	8,592	14,875
	<b>Middle-aged adults 45-64 years</b>	179,297	6,290	72,627	49,691	30,227	20,462
	<b>Elderly 65+ years</b>	246,332	1,407	13,077	3,832	176,434	51,582
	<b>Unknown</b>	6	2	1	2	1	0
<b>Race/ethnicity</b>	<b>American Indian or Alaska Native</b>	26,405	819	3,326	10,697	5,804	5,759
	<b>Asian or Pacific Islander</b>	10,013	420	3,739	2,823	1,886	1,145
	<b>Black or African American</b>	31,607	1,034	6,592	12,734	7,476	3,771
	<b>Hispanic or Latino</b>	133,117	6,752	26,035	67,077	19,948	13,305
	<b>White non-Hispanic</b>	469,397	10,320	129,733	84,210	178,406	66,728
	<b>Other</b>	86	4	16	38	23	5
	<b>Refused</b>	8,852	321	2,831	2,845	1,844	1,011
<b>Patient's marital status</b>	<b>Single</b>	236,086	10,455	52,469	115,481	33,630	24,051
	<b>Married</b>	298,961	6,551	104,338	42,115	104,294	41,663
	<b>Separated</b>	6,519	318	1,158	2,897	1,461	685
	<b>Divorced</b>	54,320	1,474	9,809	14,585	20,083	8,369
	<b>Widowed</b>	80,014	650	3,920	3,833	55,051	16,560
	<b>Unknown</b>	3,309	221	561	1,266	867	394
	<b>Not Applicable</b>	268	1	17	247	1	2

\*Excluding newborn infants.

TABLE 4A-5  
 AVERAGE LENGTH OF STAY FOR DISCHARGES\* BY FIRST-LISTED DIAGNOSIS AND AGE GROUP, ARIZONA, 2010

Category of first-listed diagnosis	All ages	Patient's age group					
		Children <15 years	Adolescents 15-19 years	Young adults 20-44 years	Middle-aged adults 45-64 years	Elderly 65+ years	Unknown
All conditions	4.4	4.2	3.3	3.5	4.7	5.0	3.2
Infectious and parasitic diseases	6.5	3.8	5.1	5.8	7.3	6.8	0.0
Septicemia	7.7	11.6	7.2	7.1	8.6	7.3	0.0
Enterocolitis due to Clostridium difficile	6.0	5.6	6.9	4.5	5.5	6.4	0.0
Neoplasms	5.5	12.3	7.6	4.5	5.1	5.9	0.0
Malignant neoplasms	6.2	13.8	10.6	6.3	5.8	6.1	0.0
Large intestine	7.7	0.0	3.0	6.8	7.2	8.0	0.0
Prostate	2.1	0.0	0.0	2.4	1.9	2.3	0.0
Trachea bronchus and lung	6.6	5.6	4.0	6.5	6.5	6.7	0.0
Breast	2.1	0.0	0.0	2.0	2.2	2.0	0.0
Benign neoplasms	3.2	4.1	3.3	2.5	3.0	4.9	0.0
Endocrine nutritional metabolic and immunity diseases	3.7	3.1	3.4	3.3	4.0	4.0	0.0
Diabetes mellitus	4.4	3.0	2.6	3.5	4.9	5.2	0.0
Volume depletion	2.5	2.0	0.0	1.6	2.3	2.7	0.0
Morbid obesity	2.0	0.0	1.0	2.0	2.0	1.8	0.0
Diseases of the blood and blood forming organs	4.1	3.6	4.2	4.2	4.3	3.9	0.0
Mental disorders	8.9	6.2	8.4	9.0	8.6	9.8	0.0
Psychoses	10.4	7.9	11.2	10.5	10.0	11.0	0.0
Alcoholic psychoses	4.5	0.0	2.0	3.7	4.8	6.7	0.0
Drug psychoses	4.0	8.0	3.8	3.7	4.0	4.6	0.0
Schizophrenic disorders	18.3	0.0	21.1	17.8	18.5	20.7	0.0
Manic-depressive disorders	9.9	8.1	9.4	9.3	9.5	14.3	0.0
Neurotic disorders	4.3	3.5	3.9	4.4	4.1	5.0	0.0
Anxiety states	3.3	4.3	4.3	3.6	2.7	3.4	0.0
Depression	5.8	4.1	4.7	5.7	5.5	8.3	0.0
Drug dependence	4.9	0.0	4.5	4.5	5.3	6.5	0.0
Nondependent abuse of drugs	1.9	1.2	1.9	1.6	2.2	2.2	0.0
Alcohol dependence syndrome	3.7	0.0	3.3	3.4	3.6	4.6	0.0
Diseases of the nervous system	4.1	3.7	4.1	3.6	4.1	4.7	1.0
Diseases of the circulatory system	4.1	5.6	3.8	3.9	4.1	4.0	1.5
Heart disease	4.1	5.4	3.4	3.7	4.0	4.2	3.0
Acute myocardial infarction	4.6	0.0	2.2	3.5	4.3	4.9	0.0
Coronary atherosclerosis	3.5	1.0	0.0	2.9	3.3	3.7	0.0

TABLE 4A-5 (continued)  
 AVERAGE LENGTH OF STAY FOR DISCHARGES\* BY FIRST-LISTED DIAGNOSIS AND AGE GROUP, ARIZONA, 2010

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	2.4	2.0	1.5	2.0	2.5	2.5	0.0
Cardiac dysrhythmias	3.1	2.7	2.8	2.2	2.9	3.2	0.0
Cardiac arrest	2.0	2.0	4.0	1.7	2.2	2.0	0.0
Congestive heart failure	4.0	6.3	5.6	3.7	4.0	4.0	0.0
Cerebrovascular disease	3.9	6.7	5.6	4.6	4.3	3.6	0.0
Diseases of the respiratory system	5.2	3.2	4.4	4.9	5.8	5.8	0.0
Acute bronchitis and bronchiolitis	3.2	3.3	4.1	2.5	3.0	3.2	0.0
Pneumonia	4.7	3.6	4.6	4.9	4.9	5.0	0.0
Chronic bronchitis	4.1	5.1	5.0	3.3	3.9	4.2	0.0
Asthma	3.1	2.1	2.4	3.1	3.8	4.1	0.0
Diseases of the digestive system	4.1	3.4	3.0	3.3	4.3	4.8	0.0
Appendicitis	2.5	2.9	2.0	1.9	2.9	4.5	0.0
Noninfectious enteritis and colitis	4.1	3.3	5.1	3.7	4.1	4.6	0.0
Diverticula of intestine	4.4	2.0	3.8	3.9	4.3	4.6	0.0
Cholelithiasis	3.3	2.9	2.5	2.6	3.4	4.6	0.0
Diseases of the genitourinary system	3.4	3.3	2.7	2.7	3.3	3.9	0.0
Calculus of kidney and ureter	2.3	1.7	1.9	2.1	2.2	2.8	0.0
Diseases of the skin and subcutaneous tissue	4.4	2.6	3.0	4.0	4.8	5.2	0.0
Cellulitis and abscess	4.0	2.5	3.0	3.7	4.3	4.6	0.0
Diseases of the musculoskeletal system	3.4	4.1	4.3	3.4	3.3	3.4	0.0
Osteoarthritis and allied disorders	2.9	6.6	3.3	2.8	2.8	3.0	0.0
Invertebral disc disorders	2.8	2.0	2.7	2.4	2.7	3.3	0.0
Congenital anomalies	6.6	8.2	3.8	4.1	4.2	4.2	0.0
Conditions originating in perinatal period	10.0	10.0	1.0	1.0	13.0	0.0	0.0
Symptoms signs and ill-defined conditions	2.5	2.7	2.9	2.5	2.4	2.7	0.0
Injury and poisoning	4.6	3.2	3.5	4.0	4.9	5.0	9.0
Fractures, all sites	4.3	2.3	3.9	3.9	4.5	4.8	0.0
Fracture of neck of femur	5.3	1.8	3.4	4.8	5.4	5.4	0.0
Poisonings	3.0	1.8	2.2	2.7	3.5	3.5	0.0

\*Excluding newborn infants.







#### **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. Procedure groupings and code numbers are based on the International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM).

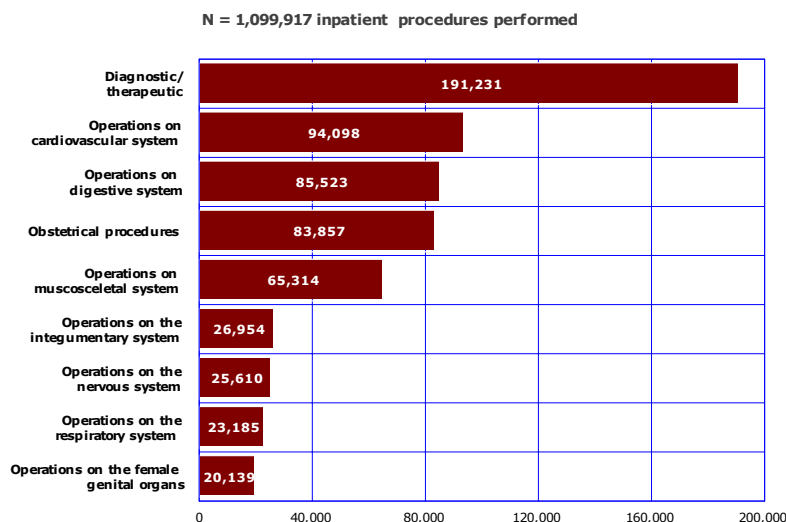
For comparability with the national data\*, the rates of all-listed procedures are presented per 10,000 population. The groupings of ICD-9-CM codes used to identify specific procedure categories can be accessed at <http://www.azdhs.gov/plan/hip/cat/icd9procedure.xls>

Beginning in 2008, Arizona hospitals may report up to 12 surgical and non-surgical procedures per record, doubling the previously required number. However, not all hospitals have been able to meet the revised requirements. This is one reason why, in our 2008 - 2010 reports, we continue to analyze the top six procedures. Another reason is comparability with the previously published data for 2000-2007.

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

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

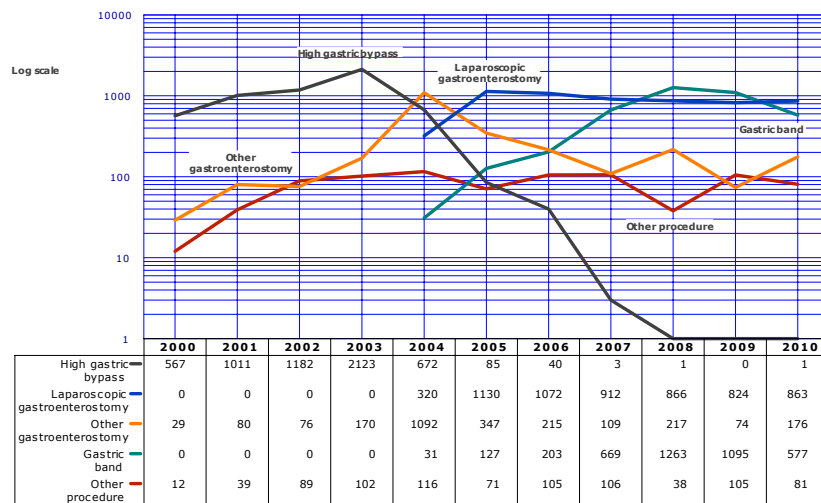
**Figure 4B-1**  
**Ten Leading Categories of All-listed Inpatient Procedures,**  
**Arizona Residents, 2010**



During 2010, 1,099,917 procedures were performed on hospital inpatients in Arizona. The rate of procedures was 1720.8 per 10,000 population. For Arizona males, this rate was 1496.4/10,000, and for Arizona females it was 1942.1/10,000.

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

**Figure 4B-2**  
**Trends in Types of Inpatient Procedures Performed in Treatment of Morbid Obesity,**  
**Arizona Residents, 2000-2010**



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 2010, **morbid obesity** (ICD-9-CM code 278.01) was the principal diagnosis for 1,764 inpatient hospitalizations (**Table 4A-1**). The number of *gastric bypass* surgeries, once the most common bariatric procedure, declined from a recent high of 2,123 in 2003 to only 1 in 2008 and 2010 (none reported for 2009; **Figure 4B-2**). Not a single *laparoscopic gastroenterostomy* procedure was reported in Arizona prior to 2004. In 2010, it was the most popular, with 863 procedures performed.

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

TABLE 4B-1  
NUMBER OF PROCEDURES BY CATEGORY AND AGE GROUP, ARIZONA, 2010

Procedures by category	Total	Age group					Un-known
		Children <15 years	Adolescents 15-19 years	Young adults 20-44 years	Middle-aged adults 45-64 years	Elderly 65+ years	
All procedures	1,099,917	79,666	33,122	299,220	307,188	380,712	9
Operations on the nervous system	25,610	3,705	1,475	8,205	6,222	6,003	0
Spinal tap	8,481	2,749	335	2,129	1,902	1,366	0
Operations on the endocrine system	2,411	42	26	644	1,036	663	0
Operations on the eye	917	105	49	317	246	200	0
Operations on the ear	568	231	24	102	111	100	0
Operations on the nose, mouth, and pharynx	4,374	953	227	1,171	1,100	923	0
Operations on the respiratory system	23,185	1,029	431	2,976	7,422	11,327	0
Bronchoscopy with or without biopsy	1,300	20	17	195	484	584	0
Operations on the cardiovascular system	94,098	3,857	770	10,493	32,684	46,292	2
Removal of coronary artery obstruction	11,656	2	1	474	4,910	6,269	0
Coronary artery bypass graft	4,681	0	0	102	1,669	2,910	0
Cardiac catheterization	27,222	185	25	1,756	11,411	13,845	0
Insertion, replacement, removal, of pacemaker leads	4,832	36	13	176	802	3,805	0
Hemodialysis	16,669	45	63	2,492	6,579	7,490	0
Operations on the hemic and lymphatic system	7,221	311	116	1,031	2,848	2,915	0
Operations on the digestive system	85,523	4,164	2,469	21,881	28,340	28,669	0
Gastric band	582	0	5	234	266	77	0
Endoscopy of small intestine with or without biopsy	22,510	495	324	4,569	7,630	9,492	0
Endoscopy of large intestine with or without biopsy	10,582	207	163	1,971	3,329	4,912	0
Partial excision of large intestine	3,327	46	31	392	1,105	1,753	0
Appendectomy, excluding incidental	8,468	1,896	1,097	3,197	1,602	676	0
Cholecystectomy	13,270	119	583	5,327	4,024	3,217	0
Lysis of peritoneal adhesions	7,749	121	82	2,441	2,731	2,374	0
Operations on the urinary system	17,477	532	207	3,694	5,815	7,229	0
Cystoscopy with or without biopsy	4,137	204	32	975	1,382	1,544	0
Operations on the male genital organs	12,745	8,849	31	234	1,476	2,155	0
Prostatectomy	3,127	0	0	27	1,234	1,866	0

TABLE 4B-1 (continued)  
 NUMBER OF PROCEDURES BY CATEGORY AND AGE GROUP, ARIZONA, 2010

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	20,139	183	299	12,204	5,309	2,144	0
Oophorectomy and salpingo-oophorectomy	5,820	23	37	2,003	2,847	910	0
Bilateral destruction/occlusion of fallopian tubes	4,396	0	0	4,379	17	0	0
Hysterectomy	8,884	4	3	4,189	3,764	924	0
Obstetrical procedures	83,857	106	9,037	74,598	115	0	1
Episiotomy with or w/o forceps or vacuum extraction	7,665	18	1,240	6,401	6	0	0
Artificial rupture of membranes	21,927	23	2,452	19,416	36	0	0
Cesarean section	24,151	16	1,625	22,456	53	0	1
Repair of current obstetric laceration	27,467	42	3,721	23,671	33	0	0
Operations on the musculoskeletal system	65,314	2,063	1,327	9,708	22,346	29,869	1
Partial excision of bone	7,537	191	176	1,547	3,216	2,407	0
Reduction of fracture	11,930	925	449	2,420	3,020	5,116	0
Open reduction of fracture with internal fixation	8,734	335	353	2,055	2,473	3,518	0
Excision or destruction of intervertebral disc	5,828	7	36	1,529	2,664	1,592	0
Total hip replacement	5,922	1	3	268	2,165	3,485	0
Total knee replacement	13,370	1	2	232	5,124	8,011	0
Operations on the integumentary system	26,954	1,992	826	7,429	9,312	7,395	0
Debridement of wound, infection, or burn	6,375	326	158	1,722	2,443	1,726	0
Miscellaneous diagnostic and therapeutic procedures	191,231	32,735	3,081	32,175	50,266	72,972	2
Computerized axial tomography	4,197	73	44	689	1,247	2,144	0
Arterio- & angiocardiology using contrast material	35,741	230	106	2,646	13,985	18,774	0
Diagnostic ultrasound	8,954	288	111	1,247	2,756	4,552	0
Respiratory therapy	27,576	3,576	439	3,897	8,334	11,329	1
Insertion of endotracheal tube	15,652	2,432	245	2,437	4,733	5,805	0
Injection/infusion of cancer chemotherapy substance	3,546	738	225	595	1,140	848	0

**TABLE 4B-2  
NUMBER OF PROCEDURES BY CATEGORY AND GENDER, ARIZONA, 2010**

Procedures by category	Total	Patient's gender		
		Female	Male	Unknown
All procedures	1,099,917	624,622	475,221	74
Operations on the nervous system	25,610	14,701	10,909	0
Spinal tap	8,481	4,350	4,131	0
Operations on the endocrine system	2,411	1,720	691	0
Operations on the eye	917	316	601	0
Operations on the ear	568	217	351	0
Operations on the nose, mouth, and pharynx	4,374	1,721	2,652	1
Operations on the respiratory system	23,185	10,596	12,588	1
Bronchoscopy with or without biopsy	1,300	631	669	0
Operations on the cardiovascular system	94,098	42,376	51,718	4
Removal of coronary artery obstruction	11,656	4,013	7,642	1
Coronary artery bypass graft	4,681	1,227	3,454	0
Cardiac catheterization	27,222	10,868	16,352	2
Insertion, replacement, removal, of pacemaker leads	4,832	2,223	2,607	2
Hemodialysis	16,669	8,018	8,651	0
Operations on the hemic and lymphatic system	7,221	3,711	3,510	0
Operations on the digestive system	85,523	48,122	37,392	9
Gastric band	582	424	158	0
Endoscopy of small intestine with or without biopsy	22,510	12,171	10,337	2
Endoscopy of large intestine with or without biopsy	10,582	6,316	4,266	0
Partial excision of large intestine	3,327	1,804	1,523	0
Appendectomy, excluding incidental	8,468	4,047	4,421	0
Cholecystectomy	13,270	8,799	4,468	3
Lysis of peritoneal adhesions	7,749	5,604	2,142	3
Operations on the urinary system	17,477	9,381	8,094	2
Cystoscopy with or without biopsy	4,137	2,477	1,660	0
Operations on the male genital organs	12,745	0	12,745	0
Prostatectomy	3,127	0	3,127	0

TABLE 4B-2 (continued)  
 NUMBER OF PROCEDURES BY CATEGORY AND GENDER, ARIZONA, 2010

Procedures by category	Total	Patient's gender		
		Female	Male	Unknown
Operations on the female genital organs	20,139	20,137	0	2
Oophorectomy and salpingo-oophorectomy	5,820	5,819	0	1
Bilateral destruction/occlusion of fallopian tubes	4,396	4,396	0	0
Hysterectomy	8,884	8,883	0	1
Obstetrical procedures	83,857	83,853	0	4
Episiotomy with or w/o forceps or vacuum extraction	7,665	7,665	0	0
Artificial rupture of membranes	21,927	21,927	0	0
Cesarean section	24,151	24,149	0	2
Repair of current obstetric laceration	27,467	27,464	0	3
Operations on the musculoskeletal system	65,314	33,730	31,577	7
Partial excision of bone	7,537	3,504	4,030	3
Reduction of fracture	11,930	6,412	5,518	0
Open reduction of fracture with internal fixation	8,734	4,691	4,043	0
Excision or destruction of intervertebral disc	5,828	2,961	2,866	1
Total hip replacement	5,922	3,378	2,544	0
Total knee replacement	13,370	7,914	5,455	1
Operations on the integumentary system	26,954	13,247	13,707	0
Debridement of wound, infection, or burn	6,375	2,620	3,755	0
Miscellaneous diagnostic and therapeutic procedures	191,231	98,815	92,404	12
Computerized axial tomography	4,197	2,240	1,957	0
Arterio- & angiocardiology using contrast material	35,741	14,809	20,931	1
Diagnostic ultrasound	8,954	4,102	4,852	0
Respiratory therapy	27,576	12,323	15,251	2
Insertion of endotracheal tube	15,652	6,924	8,726	2
Injection/infusion of cancer chemotherapy substance	3,546	1,694	1,852	0

TABLE 4B-3  
NUMBER OF PROCEDURES BY CATEGORY AND RACE/ETHNICITY, ARIZONA, 2010

Procedures by category	Total	Race/ethnicity						Other	Refused
		American Indian or Alaska Native	Asian or Pacific Islander	Black or African American	Hispanic or Latino	White non-Hispanic			
All procedures	1,099,917	43,603	18,496	47,169	218,782	756,423	159	15,285	
Operations on the nervous system	25,610	979	415	1,085	6,018	16,692	7	414	
Spinal tap	8,481	359	135	489	2,331	5,009	0	158	
Operations on the endocrine system	2,411	59	73	170	371	1,691	0	47	
Operations on the eye	917	91	14	49	163	581	0	19	
Operations on the ear	568	54	8	13	141	340	0	12	
Operations on the nose, mouth, and pharynx	4,374	309	70	224	840	2,852	0	79	
Operations on the respiratory system	23,185	880	338	955	3,093	17,609	0	310	
Bronchoscopy with or without biopsy	1,300	33	23	70	174	977	0	23	
Operations on the cardiovascular system	94,098	3,833	1,139	4,281	13,889	69,726	5	1,225	
Removal of coronary artery obstruction	11,656	205	149	375	1,583	9,170	0	174	
Coronary artery bypass graft	4,681	93	71	102	583	3,774	0	58	
Cardiac catheterization	27,222	703	359	1,170	3,824	20,816	0	350	
Insertion, replacement, removal, of pacemaker leads	4,832	98	57	138	460	4,031	0	48	
Hemodialysis	16,669	2,090	296	1,564	4,622	7,895	1	201	
Operations on the hemic and lymphatic system	7,221	170	133	264	941	5,593	0	120	
Operations on the digestive system	85,523	3,633	1,201	3,431	17,619	58,614	14	1,011	
Gastric band	582	6	3	29	89	447	1	7	
Endoscopy of small intestine with or without biopsy	22,510	1,087	288	1,044	3,904	15,955	4	228	
Endoscopy of large intestine with or without biopsy	10,582	395	130	481	1,619	7,868	0	89	
Partial excision of large intestine	3,327	85	24	92	424	2,659	0	43	
Appendectomy, excluding incidental	8,468	244	138	242	2,794	4,908	5	137	
Cholecystectomy	13,270	660	164	420	3,747	8,139	1	139	
Lysis of peritoneal adhesions	7,749	213	137	434	1,403	5,470	1	91	
Operations on the urinary system	17,477	479	204	583	2,866	13,124	0	221	
Cystoscopy with or without biopsy	4,137	96	52	142	708	3,074	0	65	
Operations on the male genital organs	12,745	171	382	487	1,782	9,730	0	193	
Prostatectomy	3,127	38	26	101	321	2,605	0	36	

TABLE 4B-3 (continued)  
 NUMBER OF PROCEDURES BY CATEGORY AND RACE/ETHNICITY, ARIZONA, 2010

Procedures by category	Total	Race/ethnicity						Other	Refused
		American Indian or Alaska Native	Asian or Pacific Islander	Black or African American	Hispanic or Latino	White non-Hispanic			
Operations on the female genital organs	20,139	527	414	1,126	5,552	12,205	3	312	
Oophorectomy and salpingo-oophorectomy	5,820	116	105	288	1,027	4,195	0	89	
Bilateral destruction/occlusion of fallopian tubes	4,396	173	106	203	1,881	1,969	1	63	
Hysterectomy	8,884	140	152	525	1,951	5,969	1	146	
Obstetrical procedures	83,857	3,100	2,702	3,960	32,039	40,572	30	1,454	
Episiotomy with or w/o forceps or vacuum extraction	7,665	171	330	221	2,107	4,708	2	126	
Artificial rupture of membranes	21,927	907	674	984	7,636	11,441	16	269	
Cesarean section	24,151	877	912	1,233	8,506	12,173	7	443	
Repair of current obstetric laceration	27,467	843	1,058	952	10,220	13,958	10	426	
Operations on the musculoskeletal system	65,314	2,396	571	2,045	8,280	51,236	4	782	
Partial excision of bone	7,537	353	67	286	1,019	5,733	1	78	
Reduction of fracture	11,930	585	121	308	1,875	8,910	2	129	
Open reduction of fracture with internal fixation	8,734	465	87	232	1,332	6,524	2	92	
Excision or destruction of intervertebral disc	5,828	119	57	155	615	4,805	0	77	
Total hip replacement	5,922	57	33	120	297	5,335	0	80	
Total knee replacement	13,370	190	78	351	1,314	11,252	1	184	
Operations on the integumentary system	26,954	1,721	293	1,310	5,091	18,210	3	326	
Debridement of wound, infection, or burn	6,375	596	56	291	1,244	4,123	1	64	
Miscellaneous diagnostic and therapeutic procedures	191,231	7,987	3,435	8,606	38,111	130,478	24	2,590	
Computerized axial tomography	4,197	105	61	115	473	3,384	1	58	
Arterio- & angiocardiology using contrast material	35,741	1,003	455	1,538	4,948	27,297	0	500	
Diagnostic ultrasound	8,954	223	121	345	1,173	6,947	0	145	
Respiratory therapy	27,576	1,743	387	1,385	4,437	19,114	4	506	
Insertion of endotracheal tube	15,652	956	224	840	2,749	10,628	4	251	
Injection/infusion of cancer chemotherapy substance	3,546	116	85	112	775	2,399	0	59	



TABLE 4B-4  
 NUMBER OF PROCEDURES BY CATEGORY AND EXPECTED SOURCE OF PAYMENT, ARIZONA, 2010

Procedures by category	Total	Self	Private insurance (Indemnity, HMO, PPO)	AHCCCS/Medicaid	Medicare	Other
All procedures	1,099,917	27,697	309,639	285,596	324,000	152,985
Operations on the nervous system	25,610	622	7,868	8,775	5,244	3,101
Spinal tap	8,481	276	2,474	3,545	1,393	793
Operations on the endocrine system	2,411	36	960	506	565	344
Operations on the eye	917	63	211	299	192	152
Operations on the ear	568	27	165	206	80	90
Operations on the nose, mouth, and pharynx	4,374	232	1,281	1,415	820	626
Operations on the respiratory system	23,185	473	4,958	4,663	9,432	3,659
Bronchoscopy with or without biopsy	1,300	25	298	273	518	186
Operations on the cardiovascular system	94,098	1,931	19,612	17,429	39,422	15,704
Removal of coronary artery obstruction	11,656	337	3,025	1,544	4,858	1,892
Coronary artery bypass graft	4,681	64	1,149	498	2,177	793
Cardiac catheterization	27,222	757	6,627	4,159	11,339	4,340
Insertion, replacement, removal, of pacemaker leads	4,832	48	575	325	2,951	933
Hemodialysis	16,669	131	1,569	2,522	10,243	2,204
Operations on the hemic and lymphatic system	7,221	106	2,571	1,200	2,372	972
Operations on the digestive system	85,523	2,997	24,815	21,587	24,804	11,320
Gastric band	582	21	352	12	82	115
Endoscopy of small intestine with or without biopsy	22,510	712	4,622	5,474	8,180	3,522
Endoscopy of large intestine with or without biopsy	10,582	309	2,441	2,082	4,004	1,746
Partial excision of large intestine	3,327	51	876	503	1,315	582
Appendectomy, excluding incidental	8,468	549	3,681	2,968	605	665
Cholecystectomy	13,270	729	4,268	4,150	2,747	1,376
Lysis of peritoneal adhesions	7,749	147	2,719	1,820	2,046	1,017
Operations on the urinary system	17,477	484	5,160	3,235	5,983	2,615
Cystoscopy with or without biopsy	4,137	94	1,455	813	1,148	627
Operations on the male genital organs	12,745	282	7,372	2,142	1,631	1,318
Prostatectomy	3,127	20	1,089	158	1,391	469

TABLE 4B-4 (continued)  
 NUMBER OF PROCEDURES BY CATEGORY AND EXPECTED SOURCE OF PAYMENT, ARIZONA, 2010

Procedures by category	Total	Self	Private insurance (indemnity, HMO, PPO)	AHCCCS/Medicaid	Medicare	Other
Operations on the female genital organs	20,139	417	9,104	6,961	1,902	1,755
Oophorectomy and salpingo-oophorectomy	5,820	81	3,026	1,328	784	601
Bilateral destruction/occlusion of fallopian tubes	4,396	83	1,594	2,451	36	232
Hysterectomy	8,884	106	4,828	2,294	826	830
Obstetrical procedures	83,857	2,390	31,925	44,717	334	4,491
Episiotomy with or w/o forceps or vacuum extraction	7,665	254	3,617	3,363	10	421
Artificial rupture of membranes	21,927	560	8,688	11,172	89	1,418
Cesarean section	24,151	537	10,302	11,803	143	1,366
Repair of current obstetric laceration	27,467	917	11,716	13,220	76	1,538
Operations on the musculoskeletal system	65,314	1,523	17,259	10,282	24,669	11,581
Partial excision of bone	7,537	129	2,350	1,458	2,331	1,269
Reduction of fracture	11,930	568	2,706	2,480	4,024	2,152
Open reduction of fracture with internal fixation	8,734	441	2,080	1,794	2,794	1,625
Excision or destruction of intervertebral disc	5,828	37	2,546	811	1,454	980
Total hip replacement	5,922	21	1,789	428	2,755	929
Total knee replacement	13,370	28	3,763	941	6,195	2,443
Operations on the integumentary system	26,954	1,293	6,738	7,792	7,321	3,810
Debridement of wound, infection, or burn	6,375	316	1,312	1,918	1,939	890
Miscellaneous diagnostic and therapeutic procedures	191,231	4,862	47,311	50,538	61,746	26,774
Computerized axial tomography	4,197	117	950	721	1,736	673
Arterio- & angiocardiography using contrast material	35,741	880	8,279	5,374	15,095	6,113
Diagnostic ultrasound	8,954	242	2,164	1,523	3,532	1,493
Respiratory therapy	27,576	730	5,188	7,375	9,982	4,301
Insertion of endotracheal tube	15,652	544	2,868	4,612	5,192	2,436
Injection/infusion of cancer chemotherapy substance	3,546	26	1,310	1,139	795	276



#### **4C.**

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

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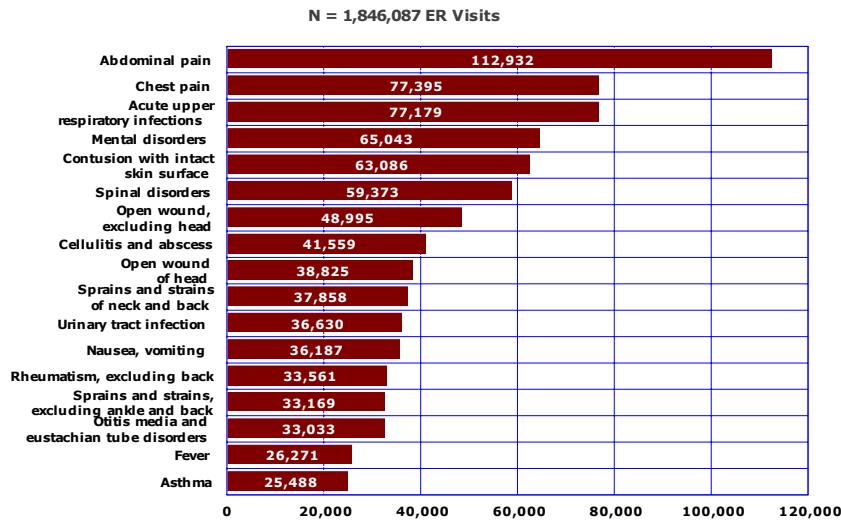
The data in this section are focused on ambulatory care visits to emergency rooms of non-Federal, short-stay hospitals. The emergency room (ER) and the inpatient hospitalization data are mutually exclusive. The ER data include only those who were not admitted as inpatients.

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

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

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

**Figure 4C-1**  
**Number of Emergency Room Visits by the Leading Diagnostic Groupings, Arizona Residents, 2010**



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

During 2010, more than 1.8 million visits were made by Arizona residents to hospital emergency rooms (ER), about 29 visits per 100 persons. The utilization rates vary by geographic region, with the West having the lowest ER visit rate.

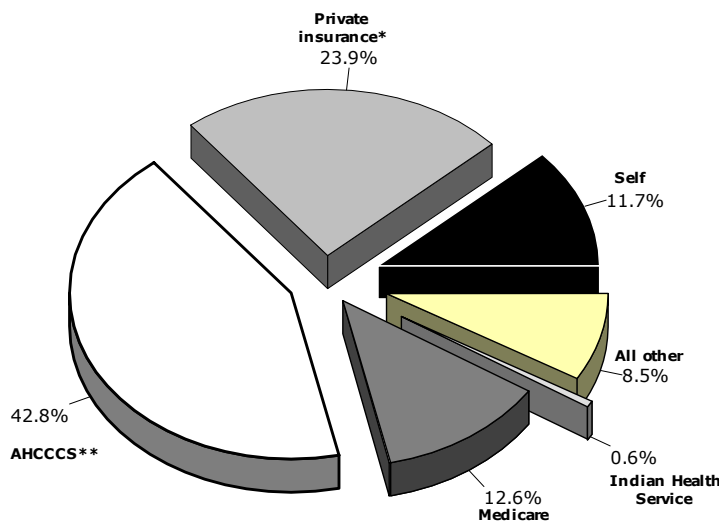
In Arizona, the number of ER visits increased by 9.8 percent from 1,680,473 in 2007.

In 2010, *abdominal pain, chest pain, acute upper respiratory infection, mental disorders, contusion with intact skin surfaces, and spinal disorders* were the leading diagnostic categories, accounting for approximately one-fourth (24.6 percent) of all visits (**Figure 4C-1, Table 4C-2**).

Both *rheumatism* (33,551 visits) and *fever* (26,271) were among the top fifteen complaints, symptoms, or reasons for a visit to the emergency room.

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

**Figure 4C-2**  
**Emergency Room Visits by Payer, Arizona Residents, 2010**



The Arizona Health Care Cost Containment System (AHCCCS, the State's Medicaid program) was the most frequently recorded expected source of payment, accounting for 42.8 percent of ER visits (**Figure 4C-3**). Private insurance was the second most frequent payer (23.9 percent of ER visits), followed by Medicare (12.6 percent) and self-pay patients (11.7 percent).

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

TABLE 4C-1  
 NUMBER OF EMERGENCY ROOM VISITS BY FIRST-LISTED DIAGNOSIS AND AGE GROUP, ARIZONA, 2010

Category of first-listed diagnosis	All Ages	Age group						Unknown
		<15	15-19	20-44	45-64	65+		
<b>Total</b>	1,846,087	391,778	132,344	729,638	363,532	228,769	26	
Infectious and parasitic diseases	38,828	18,544	3,223	11,209	3,640	2,212	0	
Neoplasms	2,199	115	61	663	750	610	0	
Endocrine nutritional metabolic and immunity diseases	26,294	2,625	1,076	8,615	7,882	6,096	0	
Diabetes	9,524	336	284	3,093	3,620	2,191	0	
Mental disorders	65,043	2,376	5,586	34,484	18,308	4,285	4	
Psychoses	14,501	368	803	7,446	4,400	1,484	0	
Alcoholic psychoses	1,791	0	9	983	759	40	0	
Drug psychoses	2,965	12	152	1,810	858	133	0	
Schizophrenic disorders	1,973	12	72	1,186	651	52	0	
Manic-depressive disorders	4,551	253	411	2,347	1,352	188	0	
Neurotic disorders	50,533	2,007	4,782	27,033	13,906	2,801	4	
Anxiety states	13,638	261	972	8,093	3,150	1,161	1	
Depression	8,685	380	923	4,431	2,469	482	0	
Drug dependence	847	1	80	561	185	20	0	
Nondependent abuse of drugs	15,847	301	1,792	8,670	4,622	459	3	
Alcohol dependence syndrome	4,110	18	92	1,832	1,974	194	0	
Diseases of the nervous system	110,365	37,396	5,595	40,399	19,833	7,142	0	
Diseases of the circulatory system	41,727	439	528	7,714	13,757	19,284	5	
Diseases of the respiratory system	182,605	81,236	11,931	52,824	23,166	13,448	0	
Acute bronchitis and bronchiolitis	21,082	8,305	955	6,788	3,266	1,768	0	
Pneumonia	20,018	9,866	804	4,037	2,949	2,362	0	
Chronic bronchitis	4,828	35	6	315	2,158	2,314	0	
Asthma	25,488	11,276	1,747	7,957	3,441	1,067	0	
Diseases of the digestive system	106,896	18,543	5,996	49,049	21,189	12,118	1	
Diseases of the genitourinary system	111,906	10,367	10,837	57,486	19,660	13,556	0	
Diseases of the skin and subcutaneous tissue	70,636	15,339	5,436	30,280	13,635	5,946	0	
Diseases of the musculoskeletal system	128,057	6,809	5,698	57,155	38,057	20,336	2	
Symptoms signs and ill-defined conditions	439,582	78,774	27,256	169,546	97,598	66,404	4	
Injury and poisoning	419,830	105,795	37,291	150,689	74,944	51,102	9	
Fractures, all sites	53,766	14,176	4,415	15,231	10,697	9,246	1	
Sprains	85,646	9,558	8,898	42,864	18,134	6,191	1	
Intracranial	9,443	2,502	1,438	2,951	1,321	1,231	0	
Open wounds	87,820	27,795	6,986	29,361	13,032	10,645	1	
Superficial	20,128	6,739	1,706	6,584	3,184	1,915	0	
Contusions	63,086	14,940	5,675	21,625	11,404	9,441	1	
Foreign bodies	9,216	4,169	373	2,510	1,315	849	0	
Burns	2,927	876	216	1,208	478	149	0	
Trauma complications and unspecified injuries	34,751	13,318	3,058	9,263	4,555	4,556	1	
Poisonings	18,272	4,432	2,021	7,124	3,486	1,206	3	
Surgical and medical complications	10,821	792	354	2,965	3,061	3,649	0	

TABLE 4C-2  
 NUMBER OF EMERGENCY ROOM VISITS FOR THE LEADING DIAGNOSIS GROUPS \* AND AGE GROUP, ARIZONA, 2010

Primary diagnosis group	ICD-9-CM code(s)	All Ages	Age group						Unknown
			<15	15-19	20-44	45-64	65+		
Total, all visits		1,846,087	391,778	132,344	729,638	363,532	228,769	26	
Abdominal pain	789.0	112,932	13,241	10,443	57,673	22,288	9,287	0	
Chest pain	786.5	77,395	2,228	3,225	31,519	26,751	13,672	0	
Acute upper respiratory infection, excluding pharyngitis	460-461, 463-466	77,179	45,564	3,917	18,159	6,456	3,083	0	
Mental disorders	290-319	65,043	2,376	5,586	34,484	18,308	4,285	4	
Contusion with intact skin surface	920-924	63,086	14,940	5,675	21,625	11,404	9,441	1	
Spinal disorders	720-724	59,373	1,502	2,250	29,996	17,647	7,977	1	
Open wound, excluding head	874-897	48,995	9,200	4,520	20,317	9,004	5,953	1	
Cellulitis and abscess	681-682	41,559	6,014	2,903	19,763	9,103	3,776	0	
Headache	784.0	40,090	3,196	3,198	21,589	9,104	3,003	0	
Open wound of head	870-873	38,825	18,595	2,466	9,044	4,028	4,692	0	
Sprains and strains of neck and back	846, 847	37,858	1,834	2,980	21,292	9,064	2,688	0	
Urinary tract infection, site not specified	599.0	36,630	5,974	3,300	14,197	6,063	7,096	0	
Nausea, vomiting	787.0	36,187	13,776	2,204	12,035	4,809	3,363	0	
Rheumatism, excluding back	725-729	33,561	2,652	1,416	13,567	10,112	5,813	1	
Sprains and strains, excluding ankle and back	840-844, 845.1, 848	33,169	5,215	3,471	14,794	6,861	2,828	0	
Otitis media and eustachian tube disorders	381-382	33,033	26,279	1,113	4,279	1,081	281	0	
Fever	780.6	26,271	22,166	637	1,796	918	754	0	
Asthma	493	25,488	11,276	1,747	7,957	3,441	1,067	0	
Acute pharyngitis	462.0	22,043	7,530	3,305	9,165	1,495	548	0	
Chronic and unspecified bronchitis	490-491	20,281	3,185	907	6,707	5,423	4,059	0	
Superficial injuries	910-919	20,128	6,739	1,706	6,584	3,184	1,915	0	
Pneumonia	480-486	20,018	9,866	804	4,037	2,949	2,362	0	
Gastroenteritis and colitis	558.0	17,778	6,627	1,127	6,218	2,513	1,293	0	
Migraine	346	17,096	566	1,043	10,838	4,221	428	0	
Heart disease, excluding ischemic	391-392.0, 393-398, 402, 404, 415-416, 420-429	12,307	267	177	1,776	3,548	6,535	4	
Unspecified viral and chlamydial infection	79.9	9,726	5,831	700	2,325	638	232	0	

\*Based on first-listed diagnosis



#### 4D.

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

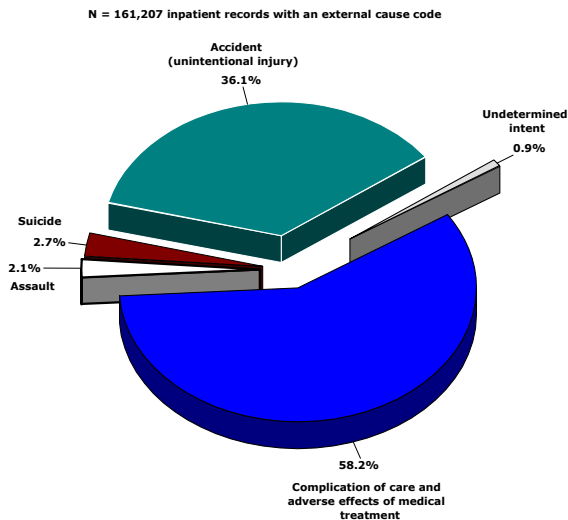
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Prior to 2009, injury hospitalizations and injury-related emergency room visits were defined here through the range of ICD-9-CM codes 800-999 used as the first-listed diagnosis. In addition, the supplementary classification of external causes of injury 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 hospital were revised and the non-injury first-listed diagnoses may also have an external cause of injury code. Beginning with the 2009 edition of this report, the reader is advised that the number of suicides, accidents, etc. shown in **Table 4D-1** and **Table 4D-2** no longer reflect only those where the principal diagnosis was an injury. To continue to do so would only mean undercounting the external causes of injury. As an example, both in 2009 and 2010, among the suicide attempt-related ER visits, *injury and poisoning, mental disorders, chronic disease or infectious disease* were identified as the first-listed diagnosis.

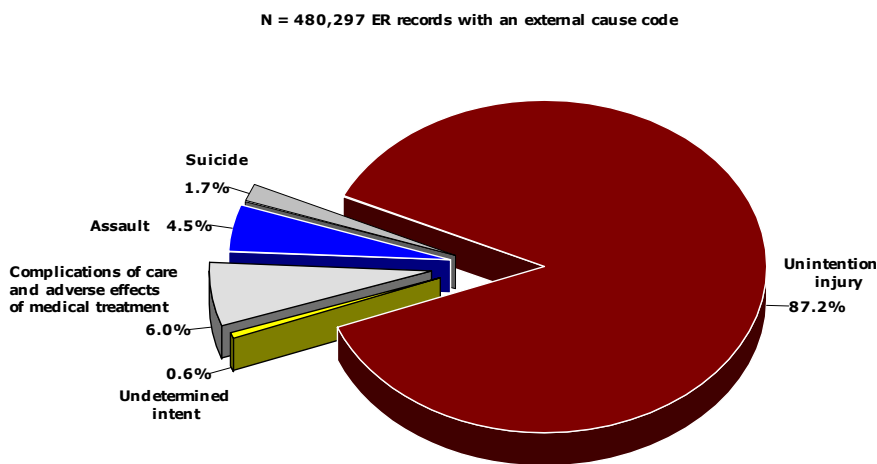
4D. INJURY-RELATED INPATIENT DISCHARGES AND EMERGENCY ROOM VISITS BY INTENT AND MECHANISM OF INJURY

**Figure 4D-1**  
**Percent Distribution of Inpatient Discharges by Intent of Injury,**  
**Arizona Residents, 2010**



In 2010, injury was indicated as the principal diagnosis on 66,962 inpatient discharge records (Table 4A-1). However, the E-codes for external causes of injury were provided on a substantially greater number of inpatient discharges (Figure 4D-1, Table 4D-1). *Complications of medical care and adverse effects of medical treatment* (including adverse drug reactions and complications from surgical and medical procedures) accounted for the absolute majority of inpatient hospitalizations by the intent of injury (58.2 percent). *Unintentional injuries in accidents* accounted for 36.1 percent of all inpatient discharges by intent of injury. *Self-inflicted injuries in suicide* resulted in 4,429 inpatient hospitalizations (2.7 percent). *Assault* accounted for 3,350 inpatient hospitalizations (2.1 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, 2010**



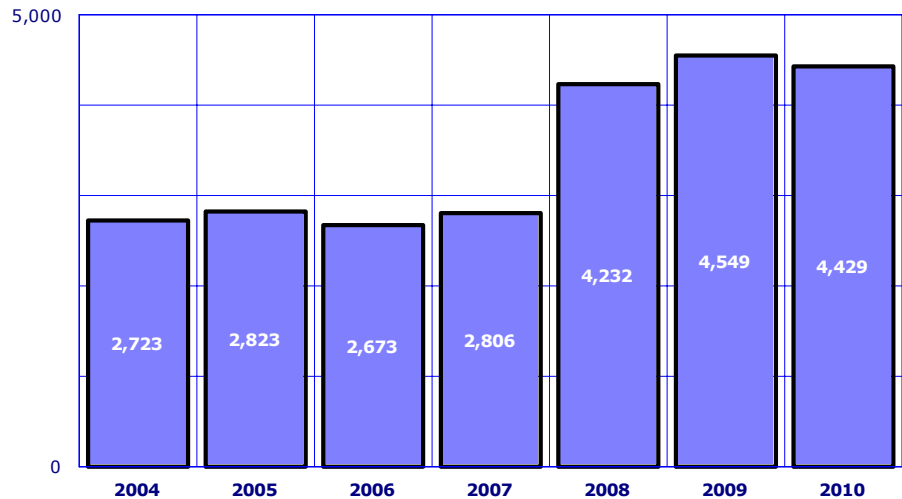
In 2010, there were 480,297 emergency room visits with known intent of injury among Arizona residents, 3 times as many as inpatient discharges. *Unintentional injuries or accidents* accounted for nine out of ten (419,001 or 87.2 percent) of all injury-related emergency room visits (Figure 4D-3, Table 4D-2). The external cause of injury was classified as *assault* for 21,501 emergency room visits: these were the injuries purposely inflicted by another person. *Complications of care and adverse effects of medical treatment* accounted for a greater number of emergency room visits than *self-inflicted injuries in suicide* (6.0 percent vs. 1.7 percent, respectively, Figure 4D-3, Table 4D-2).



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

**Figure 4D-3**  
**Suicide-related Inpatient Discharges by Year,**  
**Arizona Residents, 2004 - 2010**

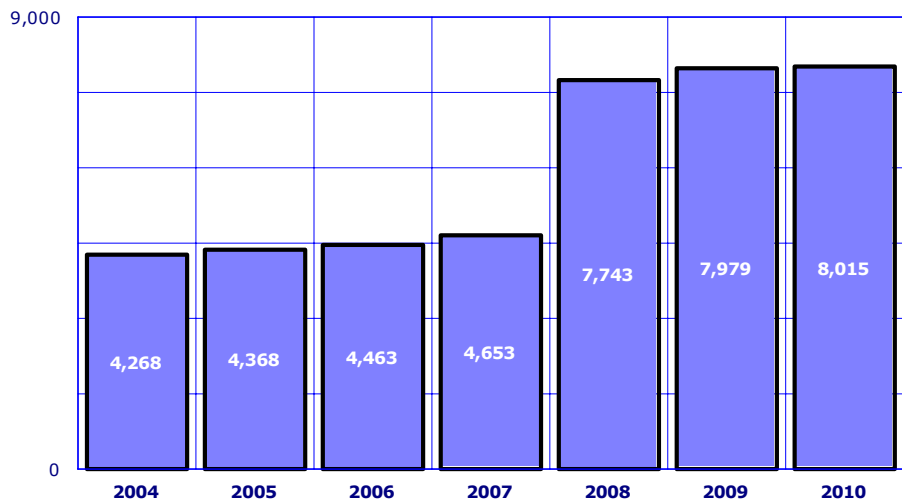
Beginning in 2008, there was a substantial increase in the number of suicide-related inpatient discharges and emergency room visits (Figure 4D-7 and Figure 4D-8). It was only partly due to the change in the reporting requirements for hospitals. In 2010, *injury or poisoning* was the principal diagnosis on 3,666 inpatient discharge records, which also included the E codes for suicide (E950-E959). *Mental disorders* were identified as the principal diagnosis on the additional 521 suicide-related records. For the additional 242 inpatient discharges mentioning suicide attempt, the principal diagnosis was classified as either *chronic or infectious disease*.



From 2007 to 2010 there was a 30.6 percent increase in suicide-related inpatient discharges where the principal diagnosis was an injury.

**Figure 4D-4**  
**Suicide-related Emergency Room Visits by Year,**  
**Arizona Residents, 2004 - 2010**

*Injury or poisoning* was the principal diagnosis on 6,218 ER discharge records, which also included the E codes for suicide (E950-E959). *Mental disorders* were identified as the principal diagnosis on the additional 1,205 suicide-related records. For the additional 592 ER discharges mentioning suicide attempt, the principal diagnosis was classified as either *chronic or infectious disease*.



From 2007 to 2010 there was a 33.6 percent increase in suicide-related emergency room visits where the principal diagnosis was an injury.

**TABLE 4D-1  
INPATIENT DISCHARGES BY INTENT AND MECHANISM FOR SELECTED EXTERNAL CAUSES BY GENDER, AGE GROUP, AND  
RACE/ETHNICITY, ARIZONA, 2010**

	Total*	Gender		Age group						Race/ethnicity							
		Female	Male	Unknown	Children < 15 years	Adolescents 15-19 years	Young adults 20-44 years	Middle-aged adults 45-64 years	Elderly 65+ years	Unknown	American Indian or Alaska	Asian or Pacific Islander	Black or African American	Hispanic or Latino	White non-Hispanic	Other	Refused
<b>UNINTENTIONAL INJURY OR ACCIDENT<sup>1</sup></b>	58,189	28,966	29,219	4	4,122	1,983	11,420	14,418	26,245	1	2,782	622	1,832	8,740	43,509	4	700
<b>Fall</b>	27,319	16,365	10,953	1	1,128	295	2,172	5,237	18,487	0	897	263	543	3,107	22,261	0	248
<b>Motor vehicle accident</b>	7,446	2,957	4,487	2	528	752	3,072	1,883	1,211	0	560	114	317	1,429	4,899	0	127
<b>Accidental poisoning by drugs, medicinal substances gases and vapors</b>	3,921	2,030	1,891	0	273	150	1,134	1,572	792	0	151	35	207	585	2,892	1	50
<b>Natural and environmental factors</b>	2,441	1,089	1,352	0	351	79	675	826	510	0	139	23	79	462	1,706	1	31
<b>Exposure to excessive natural heat</b>	399	92	307	0	10	10	121	157	101	0	12	1	29	101	250	1	5
<b>Fire and flames</b>	580	225	355	0	146	16	178	153	87	0	67	12	36	156	303	0	6
<b>Machinery</b>	233	26	207	0	8	8	99	90	28	0	8	2	3	89	124	0	7
<b>SUICIDE<sup>2</sup></b>	4,429	2,390	2,039	0	94	437	2,425	1,258	215	0	245	60	192	628	3,226	0	78
<b>ASSAULT<sup>3</sup></b>	3,350	622	2,727	1	144	351	2,094	663	98	0	725	22	346	807	1,383	2	65
<b>INJURIES OF UNDETERMINED INTENT<sup>4</sup></b>	1,375	619	756	0	78	59	473	419	346	0	49	15	70	234	987	0	20
<b>COMPLICATIONS OF CARE AND ADVERSE EFFECTS OF MEDICAL TREATMENT<sup>5</sup></b>	93,864	49,826	44,032	6	2,127	1,038	13,434	31,506	45,758	1	2,823	1,176	4,272	13,042	71,580	5	966
<b>Misadventures to patients</b>	2,004	1,239	765	0	47	24	379	695	859	0	50	28	79	282	1,534	0	31
<b>Surgical and medical procedures as the cause of adverse reaction</b>	48,747	24,299	24,442	6	1,501	619	7,475	17,223	21,928	1	1,873	610	2,143	7,182	36,413	3	523
<b>Drugs causing adverse effects</b>	43,112	24,287	18,825	0	579	395	5,580	13,588	22,970	0	900	538	2,050	5,578	33,632	2	412

<sup>1</sup>First-listed external cause codes E800-E869, E880-E929.

<sup>2</sup>First-listed external cause codes E950-E959.

<sup>3</sup>First-listed external cause codes E960-E969.

<sup>4</sup>First-listed external cause codes E890-E989.

<sup>5</sup>First-listed external cause codes E870-E879, E930-E949.

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

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

**TABLE 4D-2  
EMERGENCY ROOM VISITS BY INTENT AND MECHANISM FOR SELECTED EXTERNAL CAUSES BY GENDER, AGE GROUP, AND  
RACE/ETHNICITY, ARIZONA, 2010**

	Total*	Gender		Age group							Race/ethnicity						
		Female	Male	Unknown	Children < 15 years	Adolescents 15-19 years	Young adults 20-44 years	Middle-aged adults 45-64 years	Elderly 65+ years	Unknown	American Indian or Alaska	Asian or Pacific Islander	Black or African American	Hispanic or Latino	White non-Hispanic	Other	Refused
<b>UNINTENTIONAL INJURY OR ACCIDENT<sup>1</sup></b>	419,001	201,996	216,971	34	107,882	35,510	146,652	75,937	53,009	11	14,896	5,298	22,542	103,960	266,757	103	5,445
Fall	134,013	72,970	61,029	14	41,084	6,619	29,644	24,811	31,852	3	4,608	1,514	5,344	30,938	89,995	38	1,576
Motor vehicle accident	45,162	24,617	20,540	5	4,348	5,672	22,662	9,531	2,945	4	1,577	946	3,570	10,978	27,290	3	798
Struck against or struck accidentally by objects or persons	51,002	18,933	32,065	4	19,283	7,119	16,423	5,423	2,754	0	1,557	614	3,201	13,654	31,248	16	712
Overexertion	42,086	20,569	21,511	6	5,418	4,325	20,866	8,552	2,925	0	1,533	435	2,723	9,898	27,048	12	437
Cutting or piercing instruments or objects	29,473	10,904	18,568	1	5,554	2,774	13,196	5,604	2,345	0	996	367	1,358	7,851	18,475	6	420
Natural and environmental factors	24,358	12,324	12,033	1	8,117	1,714	8,003	4,567	1,956	1	959	366	1,200	7,129	14,372	8	324
Exposure to excessive natural heat	1,493	513	980	0	104	117	735	387	149	1	44	14	101	367	955	0	12
Accidental poisoning by drugs, medicinal substances gases and vapors	7,260	3,759	3,501	0	2,252	606	2,381	1,395	624	2	282	73	408	1,712	4,688	0	97
Fire and flames	3,562	1,664	1,898	0	946	256	1,562	602	196	0	166	96	240	1,102	1,914	0	44
Machinery	1,273	198	1,075	0	63	67	597	354	192	0	33	15	26	344	839	1	15
Pedal cycle, nontraffic and other	7,696	1,869	5,827	0	3,000	831	2,249	1,334	282	0	240	80	274	1,655	5,343	0	104
Motor vehicle, nontraffic	1,944	593	1,351	0	339	331	936	252	86	0	57	12	41	400	1,419	0	15
Foreign body accidentally entering eye or other orifice	10,105	4,284	5,821	0	4,473	423	2,811	1,473	925	0	334	121	592	2,958	5,969	2	129
Suffocation	182	76	106	0	79	6	25	25	47	0	9	1	8	36	125	0	3
Firearm missile	678	76	602	0	157	106	311	84	19	1	33	1	27	235	372	0	10
Drowning/submersion	235	88	147	0	157	13	41	16	8	0	15	2	12	51	144	0	11
SUICIDE <sup>2</sup>	8,015	4,552	3,463	0	422	1,421	4,610	1,423	138	1	367	89	429	1,618	5,400	1	111
ASSAULT <sup>3</sup>	21,501	8,000	13,497	4	1,126	3,112	13,585	3,429	249	0	2,568	206	1,973	5,824	10,629	13	288
INJURIES OF UNDETERMINED INTENT <sup>4</sup>	2,814	1,292	1,522	0	290	387	1,405	583	149	0	158	22	156	530	1,910	0	38
COMPLICATIONS OF CARE AND ADVERSE EFFECTS OF MEDICAL TREATMENT <sup>5</sup>	28,966	16,447	12,517	2	2,921	1,330	9,702	7,728	7,285	0	806	332	1,555	6,378	19,606	2	287
Misadventures to patients	136	68	68	0	15	5	36	42	38	0	3	2	3	61	63	0	4
Surgical and medical procedures as the cause of adverse reaction	13,846	6,845	7,000	1	1,040	494	4,293	3,876	4,143	0	449	130	698	2,745	9,709	0	115
Drugs causing adverse effects	14,984	9,534	5,449	1	1,866	831	5,373	3,810	3,104	0	354	200	854	3,572	9,834	2	168

<sup>1</sup>First-listed external cause codes E800-E869, E880-E929.

<sup>2</sup>First-listed external cause codes E950-E959.

<sup>3</sup>First-listed external cause codes E960-E969.

<sup>4</sup>First-listed external cause codes E890-E989.

<sup>5</sup>First-listed external cause codes E870-E879, E930-E949.

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

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