

7.

**HOSPITAL CHARGES INCURRED BY PATIENTS WITH
MOTOR VEHICLE-RELATED INJURY DIAGNOSIS BY
TYPE OF INJURED PERSON AND TYPE OF INJURY,
ARIZONA RESIDENTS,
2005-2007**

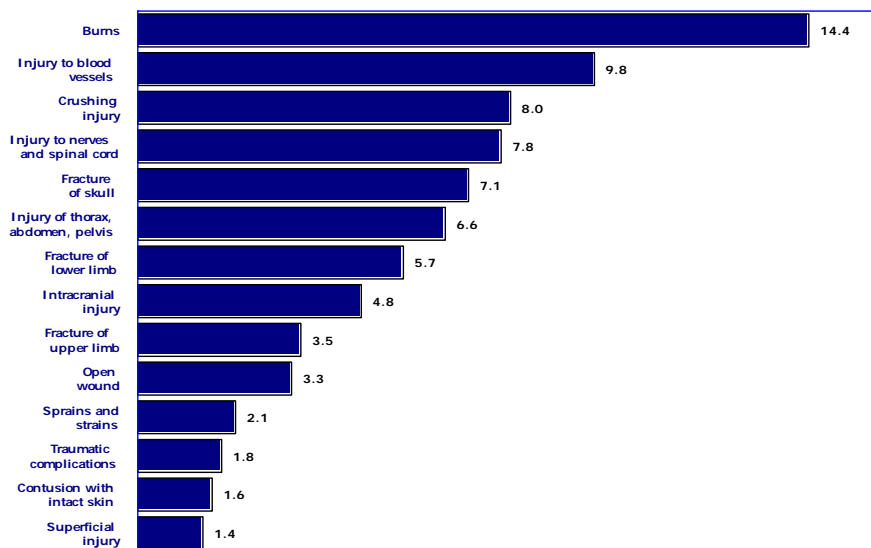
In 2005-2007, the average length of hospital stay for Arizona inpatients was 4.4 days. The percent of patients hospitalized for 3 days or less increased to 62.3 percent, with only 13.2 percent of inpatients staying 8 days or more.

The average length of stay for inpatients with motor vehicle-related injury diagnosis was 18.2 percent longer at 5.2 days (**Table 7-1**). Average lengths of stay in the hospital varied by the five major victim types. Pedestrians, followed by motorcycle riders had the highest average length of stay (6.8 days and 5.4 days, respectively). Non-driving occupants of motor vehicles had the shortest average stay (4.6 days).

Fifty-eight percent of patients with motor vehicle-related injury diagnosis were hospitalized for 3 days or less. Twenty-three percent were hospitalized for 4-7 days with 19 percent of inpatients staying 8 days or more. Hospital stays ranged from 1 to 123 days for drivers, 1 to 118 days for pedestrians, and 1 to 57 days for pedal cyclists.

Trauma- or injury-specific average lengths of stay (**Figure 7-1**) varied from a low of 1.4 days for inpatients with superficial injury diagnosis to a high of 14.4 days for inpatients who suffered burns. Drivers of motor vehicles in this injury group experienced the longest average length of stay of 22.1 days (**Table 7-1**).

Figure 7-1
Average Length of Stay for Inpatients with Motor Vehicle-Related Injury Diagnosis
by Type of Injury, Arizona Residents, 2005-2007



In 2007 alone, total charges incurred by ER patients with motor vehicle-related injury diagnosis exceeded \$150 million (\$156,230,596). The 3-year total charges for 2005-2007 exceeded \$400 million (\$403,741,858). The

average charges shown in **Table 7-2** and **Table 7-3** were computed using the hospital discharge data for 2005-2007.

In 2005-2007, the average bill for 151,196 ER patients with motor vehicle-related injury diagnosis was \$2,670 (**Table 7-2**). Patients who had injury to blood vessels had the highest average ER charges (\$19,956, **Figure 7-2**). Pedestrians, followed by motorcycle riders, and pedal cyclists had the highest average ER charges (\$3,369, \$3,297, and \$3,201, respectively; **Figure 7-3**).

Figure 7-2
Average Charges Incurred by Emergency Room Patients with Motor Vehicle-Related Injury Diagnosis by Type of Injury, Arizona Residents, 2005-2007

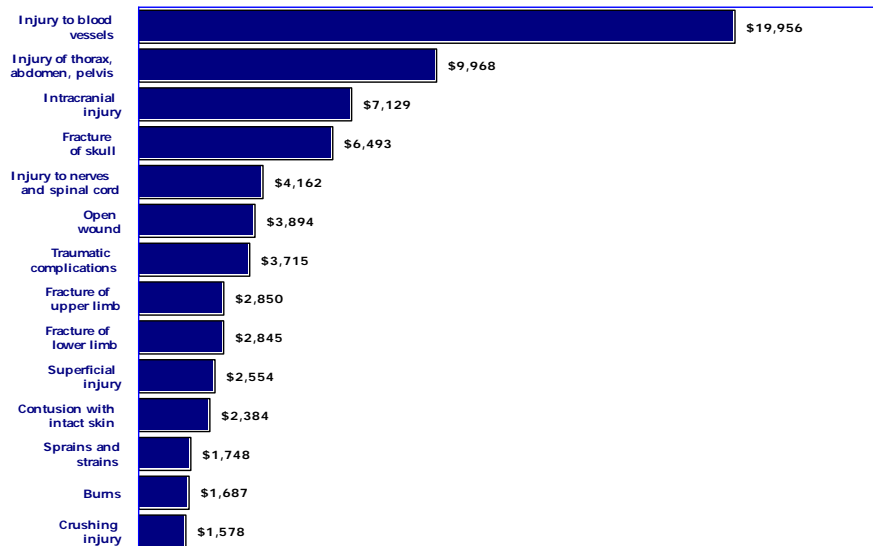
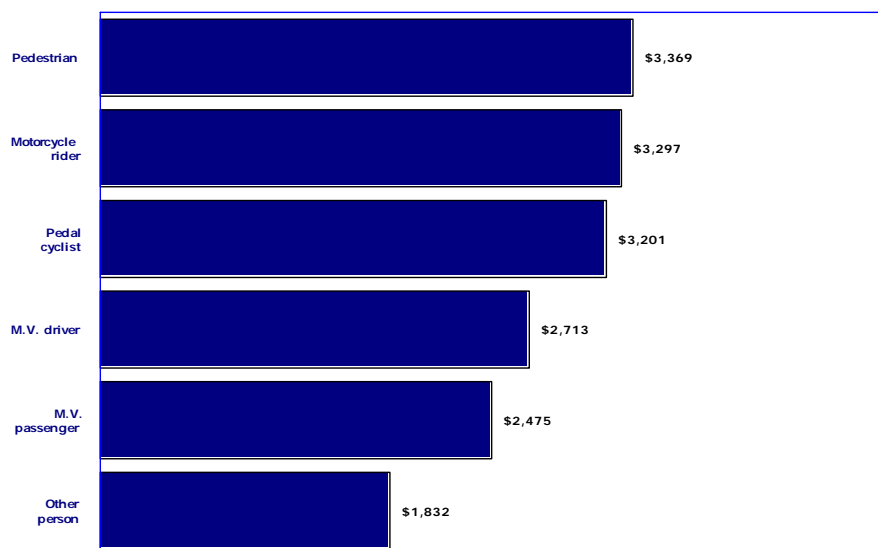


Figure 7-3
Average Charges Incurred by Emergency Room Patients with Motor Vehicle-Related Injury Diagnosis by Type of Injured Person, Arizona Residents, 2005-2007



In 2007, the total hospital bill for the 22,608 injured inpatients was more than \$450 million (\$452,433,771). The total charges for 2005-2007 exceeded one billion dollars (\$1,265,746,679). The average charges shown in **Table 7-2** and **Table 7-3** were computed using the hospital discharge data for 2005-2007.

In 2005-2007, the average bill for the hospital inpatients with motor vehicle-related injury diagnosis was \$55,989 (**Table 7-3**). Inpatients who had burns had the highest average inpatients charges (\$204,658, **Figure 7-4**). Pedestrians, followed by motorcycle riders, had the highest average hospital charges (\$72,949 and \$60,230, respectively; **Figure 7-5**).

Figure 7-4
Average Charges Incurred by Hospital Inpatients with Motor Vehicle-Related Injury Diagnosis by Type of Injury, Arizona Residents, 2005-2007

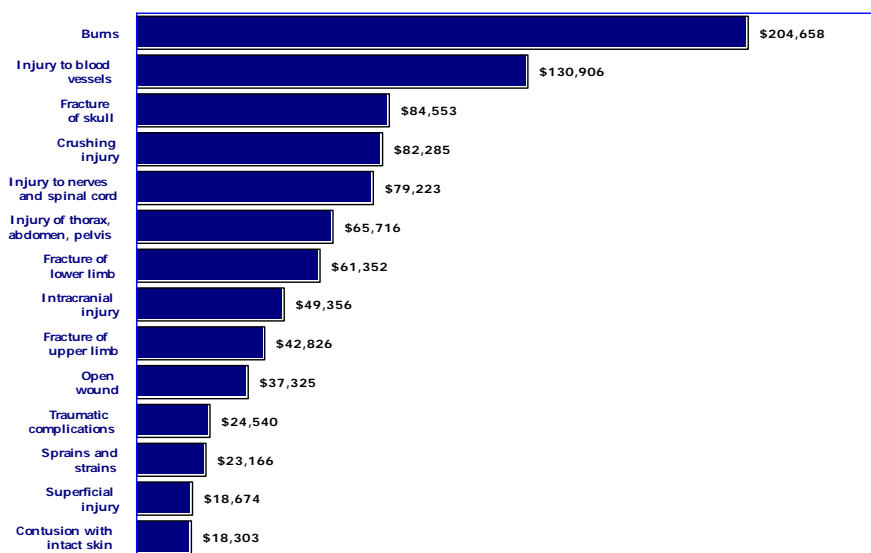


Figure 7-5
Average Charges Incurred by Hospital Inpatients with Motor Vehicle-Related Injury Diagnosis by Type of Injured Person, Arizona Residents, 2005-2007

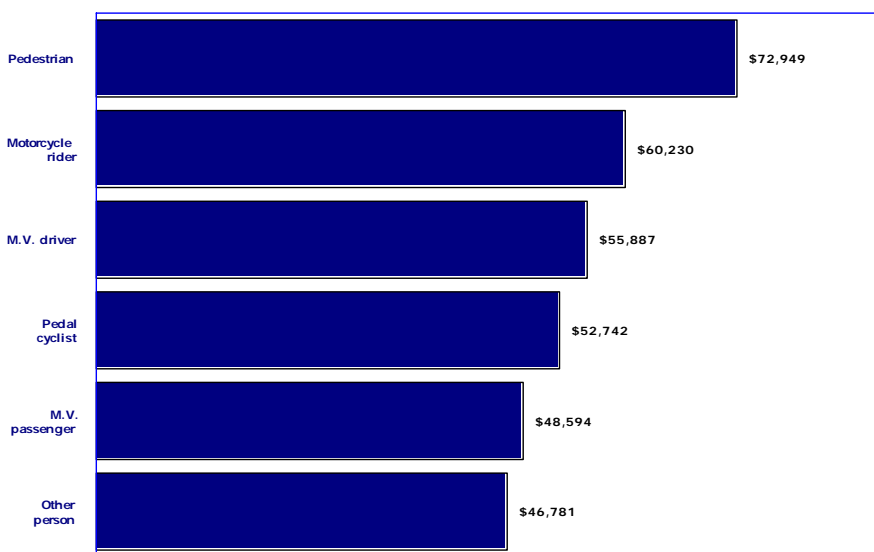


Table 7-1
Average Length of Stay for Inpatient Discharges with Motor Vehicle-Related Injury Diagnosis by
Type of Injured Person and Diagnostic Category, Arizona Residents, 2005-2007

	Total	M.V. driver	M.V. passenger	Motorcycle rider	Pedestrian	Pedal cyclist	Other person
Fracture of skull	7.1	6.4	5.9	8.3	9.8	6.2	8.6
Fracture of upper limb	3.5	3.6	3.6	3.3	4.5	3.7	3.0
Fracture of lower limb	5.7	5.7	5.4	5.5	7.1	4.8	5.4
Dislocation	4.1	3.8	4.6	2.9	8.5	4.8	3.7
Sprains and strains of joints and adjacent muscles	2.1	2.1	1.8	2.2	3.1	1.5	1.5
Intracranial injury, excluding those with skull fracture	4.8	4.3	4.3	5.8	5.8	5.2	8.1
Internal injury of thorax, abdomen, and pelvis	6.6	6.8	6.2	6.0	6.9	6.8	8.0
Open wound	3.3	2.8	2.4	4.8	5.6	3.8	4.4
Injury to blood vessels	9.8	10.8	9.1	7.8	9.3	7.4	12.0
Superficial injury	1.4	1.1	1.1	1.3	2.7	1.2	1.4
Contusion with intact skin surface	1.6	1.6	1.5	1.5	1.2	1.8	3.0
Crushing injury	8.0	7.2	7.7	9.5	7.5	2.0	9.1
Burns	14.4	22.1	10.4	6.9	8.3	15.0	11.7
Injury to nerves and spinal cord	7.8	6.4	12.6	8.7	3.8	4.0	9.7
Traumatic complications and unspecified injuries	1.8	1.8	1.6	2.0	2.6	1.3	2.1
Total	5.2	4.9	4.6	5.4	6.8	5.1	6.3

Table 7-2
Average Charges Incurred by Emergency Room Patients with Motor Vehicle-Related Injury Diagnosis by
Type of Injured Person and Diagnostic Category, Arizona Residents, 2005-2007

	Total	M.V. driver	M.V. passenger	Motorcycle rider	Pedestrian	Pedal cyclist	Other person
Fracture of skull	\$6,493	\$6,404	\$5,521	\$7,811	\$10,194	\$7,474	\$5,037
Fracture of upper limb	\$2,850	\$3,012	\$3,151	\$2,919	\$3,640	\$3,041	\$1,677
Fracture of lower limb	\$2,845	\$3,143	\$3,363	\$2,700	\$2,873	\$3,197	\$1,712
Dislocation	\$2,951	\$3,307	\$3,400	\$2,546	\$3,520	\$3,736	\$2,101
Sprains and strains of joints and adjacent muscles	\$1,748	\$1,799	\$1,642	\$2,120	\$2,203	\$2,233	\$1,331
Intracranial injury, excluding those with skull fracture	\$7,129	\$7,262	\$6,958	\$7,003	\$9,901	\$7,291	\$5,141
Internal injury of thorax, abdomen, and pelvis	\$9,968	\$9,697	\$11,283	\$9,263	\$11,919	\$8,691	\$9,785
Open wound	\$3,894	\$4,264	\$3,948	\$3,577	\$5,031	\$4,353	\$1,993
Injury to blood vessels	\$19,956	\$23,725	\$30,817	\$29,326	\$6,429	NA	\$5,295
Superficial injury	\$2,554	\$2,716	\$2,180	\$2,922	\$3,571	\$2,718	\$1,602
Contusion with intact skin surface	\$2,384	\$2,639	\$2,106	\$2,708	\$2,346	\$2,390	\$1,618
Crushing injury	\$1,578	\$2,949	\$1,079	\$2,261	\$1,646	\$1,190	\$1,244
Burns	\$1,687	\$1,568	\$1,522	\$1,613	\$4,734	\$22,416	\$1,265
Injury to nerves and spinal cord	\$4,162	\$5,079	\$6,794	\$4,307	\$1,674	\$1,337	\$1,097
Traumatic complications and unspecified injuries	\$3,715	\$4,048	\$3,273	\$4,192	\$3,986	\$3,825	\$2,537
Total, all injuries	\$2,670	\$2,713	\$2,475	\$3,297	\$3,369	\$3,201	\$1,832

**Table 7-3
Average Charges Incurred by Inpatients with Motor Vehicle-Related Injury Diagnosis by
Type of Injured Person and Diagnostic Category, Arizona Residents, 2005-2007**

	Total	M.V. driver	M.V. passenger	Motorcycle rider	Pedestrian	Pedal cyclist	Other person
Fracture of skull	\$84,553	\$84,303	\$67,248	\$99,359	\$108,464	\$71,214	\$83,484
Fracture of upper limb	\$42,826	\$45,634	\$41,304	\$41,217	\$51,044	\$42,520	\$28,272
Fracture of lower limb	\$61,352	\$62,690	\$56,784	\$62,520	\$73,291	\$49,100	\$40,696
Dislocation	\$48,992	\$49,055	\$48,735	\$34,150	\$103,743	\$35,199	\$42,886
Sprains and strains of joints and adjacent muscles	\$23,166	\$23,145	\$20,500	\$26,914	\$28,171	\$25,096	\$22,904
Intracranial injury, excluding those with skull fracture	\$49,356	\$46,291	\$44,848	\$57,643	\$69,041	\$48,591	\$46,320
Internal injury of thorax, abdomen, and pelvis	\$65,716	\$70,745	\$58,783	\$54,486	\$83,368	\$63,128	\$68,779
Open wound	\$37,325	\$34,255	\$28,642	\$56,360	\$54,819	\$42,171	\$25,196
Injury to blood vessels	\$130,906	\$168,322	\$114,531	\$108,714	\$95,940	\$74,956	\$63,002
Superficial injury	\$18,674	\$18,914	\$17,143	\$17,327	\$24,680	\$13,300	\$17,076
Contusion with intact skin surface	\$18,303	\$18,702	\$18,544	\$15,507	\$17,116	\$16,608	\$18,306
Crushing injury	\$82,285	\$78,126	\$76,612	\$106,419	\$93,330	\$13,773	\$44,004
Burns	\$204,658	\$418,990	\$59,507	\$69,745	\$89,832	\$89,233	\$116,502
Injury to nerves and spinal cord	\$79,223	\$71,038	\$109,653	\$94,382	\$35,551	\$58,099	\$62,751
Traumatic complications and unspecified injuries	\$24,540	\$25,345	\$21,791	\$24,647	\$29,937	\$21,155	\$23,239
Total, all injuries	\$55,989	\$55,887	\$48,594	\$60,230	\$72,949	\$52,742	\$46,781