

Table 7.4: Hospital Length of Stay and Charges for Children and Adolescents Age 20 and Under with Musculoskeletal (MSK) Trauma Diagnosis,¹ by Sex and Age, United States 2012

Hospital Discharges	Number of Hospital Discharges (in 000s)								
	Sex		Age in Years						Total
	Male	Female	<1	1 to 5	6 to 10	11 to 13	14 to 17	18 to 20	
Any MSK Trauma Diagnoses [2]	137.3	89.4	115.6	16.5	15.9	13.6	30.9	33.6	226.7
Primary Diagnosis [3]	51.3	25.2	4.0	13.2	12.7	9.6	18.1	18.7	76.6
Discharges/Visits for Any MSK Diagnoses	274.2	223.9	178.0	59.9	53.0	47.4	82.8	75.8	498.2
Proportion Any MSK Trauma to Any MSK Diagnoses	50.1%	39.9%	64.9%	27.5%	30.0%	28.7%	37.3%	44.3%	45.5%
Proportion Primary MSK Trauma to Any MSK Diagnoses	18.7%	11.3%	2.2%	22.0%	24.0%	20.3%	21.9%	24.7%	15.4%
Discharges/Visits for All Diagnosis	3,194.5	3,478.3	4,270.0	550.4	305.8	221.0	503.0	816.0	6,675.2
Proportion Any MSK Trauma to All Diagnoses	4.3%	2.6%	2.7%	3.0%	5.2%	6.2%	6.1%	4.1%	3.4%
Proportion Primary MSK Trauma to All Diagnoses	1.6%	0.7%	0.1%	2.4%	4.2%	4.3%	3.6%	2.3%	1.1%
Hospital Charges	Mean LOS and Charges								
Any MSK Trauma Diagnoses [2]									
Mean Length of Stay	4.2	4.1	4.0	3.2	2.9	3.8	4.7	5.2	4.2
Mean Charges [4] (in 1,000 \$s)	\$ 38.4	\$ 31.1	\$ 20.7	\$ 35.3	\$ 35.2	\$ 40.4	\$ 51.4	\$ 68.4	\$ 35.4
Total Charges (in million \$s)	\$ 5,272.3	\$ 2,780.3	\$ 2,392.9	\$ 582.5	\$ 559.7	\$ 549.4	\$ 1,588.3	\$ 2,297.0	\$ 8,025.2
Primary Diagnosis [3]									
Mean Length of Stay	3.1	3.2	5.5	2.2	2.1	2.6	3.3	4.2	3.2
Mean Charges [4] (in 1,000 \$s)	\$ 44.4	\$ 42.2	\$ 45.9	\$ 26.9	\$ 27.8	\$ 34.1	\$ 48.0	\$ 65.8	\$ 43.7
Total Charges (in million \$s)	\$ 2,277.7	\$ 1,063.4	\$ 183.6	\$ 355.1	\$ 353.1	\$ 327.4	\$ 869.3	\$ 1,230.4	\$ 3,347.4
Any MSK Trauma Diagnoses [2]									
Upper extremity	35.6	21.2	2.0	9.0	9.9	6.3	13.8	15.6	56.9
Lower extremity	30.0	13.8	1.9	5.7	4.8	6.0	12.5	12.6	43.7
Hip and pelvis	5.4	4.0	*	0.7	0.8	0.9	2.8	4.1	9.4
Spine and trunk	15.6	9.1	1.3	1.6	1.4	1.7	7.3	11.2	24.6
Child abuse	2.8	2.6	2.4	1.5	0.4	0.4	0.7	*	5.4
Birth trauma	62.4	47.8	110.2	*	*	*	*	*	110.2
Proportion of Total MSK Trauma Diagnoses [5]									
Upper extremity	25.9%	23.7%	1.7%	54.5%	62.3%	46.3%	44.7%	46.4%	25.1%
Lower extremity	21.8%	15.4%	1.6%	34.5%	30.2%	44.1%	40.5%	37.5%	19.3%
Hip and pelvis	3.9%	4.5%	*	4.2%	5.0%	6.6%	9.1%	12.2%	4.1%
Spine and trunk	11.4%	10.2%	1.1%	9.7%	8.8%	12.5%	23.6%	33.3%	10.9%
Child abuse	2.0%	2.9%	2.1%	9.1%	2.5%	2.9%	2.3%	*	2.4%
Birth trauma	45.4%	53.5%	95.3%	*	*	*	*	*	48.6%

* Data does not meet standards for reliability

[1] Includes fractures, dislocation, sprains and strains, open wound, crushing injury, contusion, traumatic compartment syndrome, unspecified injuries, injuries to nerve roots, spinal plexus, birth trauma, and child abuse.

[2] The number of possible diagnoses varies by database: KID=25; NEDS=15, NHAMCS_OP=3; NAMCS=3.

[3] Primary diagnosis defined as the first Dx.

[4] Average charges are based on individual record discharges. The fees included may vary from patient to patient, but generally include hospital room, supplies, medications, laboratory fees, and care staff, such as nurses. They generally do not include professional fees (doctors) and non-covered charges. In a small proportion of the discharge cases, professional fees (doctors) are not removed from total charges because the data source cannot provide the information. Emergency charges incurred prior to admission to the hospital may be included in total charges.

[5] Total greater than 100% due to diagnoses for more than one trauma site/type.

Source: HCUP Kids' Inpatient Database (KID). Healthcare Cost and Utilization Project (HCUP). 2012. Agency for Healthcare Research and Quality, Rockville, MD. www.hcup-us.ahrq.gov/kidoverview.jsp