

Table 7C.13: Summary Hospital Charges for Children and Adolescents Age 20 and Under with a Primary<sup>1</sup> Diagnosis of a Musculoskeletal Related Condition, by Sex and Age, United States 2013

	Total Hospital Charges 2013 for Musculoskeletal Related Condition (in 1,000 \$s)										Total Charges (in million \$s)	Proportion of Total Charges	Hospital Discharges (N) [1]
	Sex		Age in Years										
	Male	Female	Neonatal	<1	1 to 4	5 to 9	10 to 13	14 to 17	18 to 20				
Musculoskeletal Infections [2]	\$ 244.4	\$ 156.2	* \$	22.1 \$	77.9 \$	96.8 \$	83.9 \$	68.4 \$	51.2 \$		\$ 400.9	5.4%	8.3
Deformity [3]	\$ 1,075.0	\$ 1,681.1	\$ 16.0	\$ 47.0	\$ 152.2	\$ 71.3	\$ 933.8	\$ 1,085.8	\$ 247.2		\$ 2,755.5	37.0%	27.5
Trauma [4]	\$ 2,041.1	\$ 996.3	\$ 52.9	\$ 137.7	\$ 267.3	\$ 356.4	\$ 382.0	\$ 783.7	\$ 1,056.4		\$ 3,037.3	40.8%	65.6
Neuromuscular Conditions	\$ 183.5	\$ 193.8	\$ 74.1	\$ 35.5	\$ 38.6	\$ 61.2	\$ 68.3	\$ 57.1	\$ 29.7		\$ 377.2	5.1%	4.1
Syndromes with Musculoskeletal Implications [5]	*	*	*	*	*	*	*	*	*		*	*	0.6
Sports Injuries [6]	NA	NA		NA	NA	NA	NA	NA	NA		NA	NA	NA
Neoplasms	\$ 178.6	\$ 156.3	*	* \$	31.1 \$	57.1 \$	69.8 \$	88.6 \$	60.2 \$		\$ 335.2	4.5%	3.6
Skeletal Dysplasia [7]	\$ 81.0	\$ 63.4	\$ 50.4	\$ 16.3	\$ 25.4	\$ 22.0	\$ 15.0	\$ 24.7	\$ 5.6		\$ 144.8		1.5
Rheumatologic Conditions [8]	\$ 46.2	\$ 106.7	*	* \$	8.4 \$	13.7 \$	29.5 \$	61.3 \$	43.2 \$		\$ 157.3	2.1%	3.7
Medical Problems with Musculoskeletal Implications [9]	\$ 90.8	\$ 47.5	* \$	11.1 \$	15.2 \$	16.6 \$	18.6 \$	60.5 \$	32.0 \$		\$ 138.7	1.9%	4.7
Pain Syndromes [10]	\$ 24.9	\$ 21.5	*	* \$	3.5 \$	6.4 \$	16.0 \$	12.4 \$	6.6 \$		\$ 43.9	0.6%	1.7
Total Children and Adolescent Musculoskeletal (MSK) Related Diagnoses	\$ 3,980.1	\$ 3,471.9	\$ 213.9	\$ 295.4	\$ 628.1	\$ 903.1	\$ 1,628.6	\$ 2,240.3	\$ 1,542.2		\$ 7,447.8		121.3
Proportion Total MSK Charges	53.4%	46.6%	2.9%	4.0%	8.4%	12.1%	21.9%	30.1%	20.7%		100.0%		
All Children and Adolescent Patients	\$ 75,414.3	\$ 68,847.2	\$ 64,537.3	\$ 11,696.0	\$ 12,774.3	\$ 10,490.8	\$ 10,159.8	\$ 16,249.8	\$ 18,041.8		\$ 144,416.6		6,306.4
Proportion MSK Charges to All Children and Adolescent Patient Charges	5.3%	5.0%	0.3%	2.5%	4.9%	8.6%	16.0%	13.8%	8.5%		5.2%		1.9%

\* Data does not meet standards for reliability

NA: Not applicable (sports injuries) or not available (skeletal dysplasia).

[1] Primary is defined as the first diagnosis.

[2] Includes osteomyelitis, septic arthritis, soft tissue infections, Lyme disease, and tuberculosis.

[3] Includes polydactyl, syndactyl, reduction deformities, and congenital deformities..

[4] 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.

[5] Includes Marfan syndrome, Ehlers danlos, connective disorders, Down's syndrome, and neurofibromatosis.

[6] Sports injuries are reported using the United States Consumer Product Safety Commission. National Electron Injury Surveillance System (NEISS). <https://www.cpsc.gov/cgi-bin/NEISSQuery/home.aspx> Accessed November 29, 2017. NEISS identifies only injuries treated in an emergency department. Includes injuries incurred during team sports and individual sports. Cases may duplicate trauma cases.

[7] Includes chondrodystrophy, achondroplasia, hypochondroplasia, dwarfism, congenital absence of rib, Osteogenesis imperfecta, osteoporosis, and other dysplasia.

[8] Includes rheumatic fever, Reiter's disease/reactive arthritis, juvenile idiopathic arthritis, ankylosing spondylitis and inflammatory spondylopathies, psoriatic arthritis, arthropathy of inflammatory bowel disease, systemic lupus erythematosus, juvenile dermatomyositis, and localized scleroderma.

[9] Includes hemophilia, sickle cell, endocrine and metabolic disorders, Gaucher's disease, osteoporosis, hyperthyroid, rhabdomyolysis, rickets, and other conditions.

[10] Includes amplified musculoskeletal pain, juvenile primary fibromyalgia syndrome, reflex sympathetic dystrophy, benign hypermobility syndrome, and benign limb pains.

Source: HCUP National Inpatient Sample (NIS). Healthcare Cost and Utilization Project (HCUP). 2013. Agency for Healthcare Research and Quality, Rockville, MD. <https://www.hcup-us.ahrq.gov/nisoverview.jsp>