

Table 7.1.1: Health Care Visits for Children and Adolescents Age 20 and Under with a Musculoskeletal Related Diagnoses, United States 2012

	Number of Discharges/Visits for Musculoskeletal (MSK) Related Diagnoses [1] (in 000s)				
	Hospital	Emergency	Outpatient Clinic	Physician Office	Total
	Discharges [2]	Department [3]	[4]	Visits [5]	
Musculoskeletal Infections [6]	14.9	13.7	24.8	*	119.9
Deformity [7]	111.8	54.7	397.5	1,222.0	1,786.0
<i>Upper extremity</i>	20.5	5.5	37.7	*	167.6
<i>Lower extremity</i>	32.4	6.6	113.5	*	516.4
<i>Hip and pelvis</i>	15.0	2.9	45.8	*	163.7
<i>Spine</i>	46.5	38.6	175.5	629.2	889.8
<i>Other and unspecified</i>	7.2	2.4	*	*	117.5
Trauma [8]	226.7	4,519.4	1,432.4	6,715.7	12,894.2
<i>Upper extremity</i>	56.9	2,625.4	761.1	2,960.3	6,403.7
<i>Lower extremity</i>	43.7	1,331.5	444.7	3,079.0	4,898.9
<i>Hip and pelvis</i>	9.4	102.3	*	*	396.9
<i>Spine and trunk</i>	24.6	599.8	67.6	411.1	1,103.1
<i>Birth trauma</i>	110.2	1.9	*	*	135.9
<i>Child abuse</i>	5.4	13.7	138.2	*	200.1
Neuromuscular Conditions	67.2	79.9	159.0	306.0	612.1
<i>Cerebral palsy</i>	44.1	56.3	91.8	*	387.2
<i>Spina bifida</i>	12.1	14.6	42.2	*	159.3
<i>Muscular dystrophy</i>	5.2	5.8	*	*	44.1
<i>Other</i>	7.1	4.0	*	*	24.2
Syndromes with Musculoskeletal Implications [9]	29.8	32.3	77.3	*	328.6
Sports Injuries [10]	NA	1,819.8	NA	NA	1,819.8
Skeletal Dysplasias [11]	-	-	63.7	*	228.1
Neoplasms	25.6	7.1	48.6	*	140.7
<i>Benign</i>	3.6	3.7	*	*	70.5
<i>Malignant</i>	22.0	3.4	35.3	*	70.1
Rheumatologic Conditions [12]	13.5	34.5	133.2	440.0	621.2
Medical Problems with Musculoskeletal Implications	55.3	53.3	136.1	*	455.8
<i>Medical Problems [13]</i>	18.2	38.0	119.7	*	295.1
<i>Rickets [14]</i>	38.1	15.7	16.5	91.9	162.2
Pain Syndromes [15]	20.8	539.8	283.8	1,702.8	2,547.2
Total Children and Adolescent Musculoskeletal Related Diagnoses	519.4	5,095.6	2,645.4	10,794.6	19,055.0
Proportion of Total Visits	2.7%	26.7%	13.9%	56.6%	
All Children and Adolescent Patients	6,675.2	32,080.0	27,549.0	204,821.7	271,125.9
Proportion MSK of all Children and Adolescent Patients	7.8%	15.9%	9.6%	5.3%	7.0%

* Data does not meet standards for reliability

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

[2] 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

[3] Source: HCUP Nationwide Emergency Department Sample (NEDS). Healthcare Cost and Utilization Project (HCUP). 2010. Agency for Healthcare Research

[4] Source: National Hospital Ambulatory Medical Care Survey_Outpatient Department (NHAMCS_OP), 2008-2010.

[5] Source: National Ambulatory Medical Care Survey (NAMCS), 2008-2010. www.cdc.gov/nchs/ahcd/ahcd_questionnaires.htm April 23, 2013.

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

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

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

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

[10] Sports injuries are reported using the United States Consumer Product Safety Commission. National Electron Injury Surveillance System (NEISS).

<https://www.cpsc.gov/cgibin/NEISSQuery/home.aspx> Accessed October 27, 2014. NEISS identifies only injuries treated in an emergency department.

Includes injuries incurred during team sports and individual sports. Cases are not included in total diagnoses.

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

[12] 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.

[13] Includes hemophilia, sickle cell, endocrine and metabolic disorders, Gaucher's disease, osteoporosis, hyperthyroid, rhabdomyolysis, and other

[14] Vitamin D deficiency, phosphorus and calcium metabolism disorders.

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