

T7C.1.1: Healthcare Visits for Children and Adolescents Age 20 and Under with a Musculoskeletal Related Diagnoses, United States 2013

	Number of Discharges/Visits for Musculoskeletal (MSK) Related Diagnoses [1] (in 1,000s)				
	<u>Hospital</u>	<u>Emergency</u>	<u>Outpatient</u>	<u>Physician Office</u>	<u>Total</u>
	<u>Discharges [2]</u>	<u>Department [3]</u>	<u>Clinic [4]</u>	<u>Visits [5]</u>	
Musculoskeletal Infections [6]	14.0	16.0	31.4	*	61.4
Deformity [7]	108.1	64.2	541.7	1,033.9	1,747.9
<i>Upper extremity</i>	20.6	5.7	49.6	*	75.9
<i>Lower extremity</i>	31.3	9.0	163.9	328.5	532.7
<i>Hip and pelvis</i>	14.5	3.8	77.6	*	95.9
<i>Spine</i>	44.0	44.5	236.6	520.8	845.9
<i>Other and unspecified</i>	7.3	3.0	44.0	*	54.3
Trauma [8]	215.2	4,276.0	1,685.9	5,610.0	11,787.1
<i>Upper extremity</i>	49.4	2,460.3	931.5	2,759.7	6,200.9
<i>Lower extremity</i>	37.8	1,800.7	530.7	2,281.5	4,650.7
<i>Hip and pelvis</i>	8.3	104.2	*	161.4	273.9
<i>Spine and trunk</i>	21.0	501.0	89.2	355.4	966.6
<i>Birth trauma</i>	113.8	2.1	*	*	115.9
<i>Child abuse</i>	5.1	16.1	108.3	*	129.5
Neuromuscular Conditions	61.2	86.2	203.7	203.4	554.5
<i>Cerebral palsy</i>	40.4	62.2	113.8	125.6	342.0
<i>Spina bifida</i>	11.1	14.4	54.4	*	79.9
<i>Muscular dystrophy</i>	4.6	5.9	27.6	*	38.1
<i>Other</i>	6.5	4.6	*	*	11.1
Syndromes with Musculoskeletal Implications [9]	27.0	39.6	102.5	214.1	383.2
Sports Injuries [10]	NA	1,819.8	NA	NA	1,819.8
Skeletal Dysplasia [11]	20.0	19.6	77.0	119.2	235.8
Neoplasms	23.0	9.0	48.1	75.4	155.5
<i>Benign</i>	3.0	4.7	14.4	70.2	92.3
<i>Malignant</i>	20.0	4.3	33.7	5.2	63.2
Rheumatologic Conditions [12]	11.9	38.2	170.9	308.5	529.5
Medical Problems with Musculoskeletal Implications [13]	54.7	62.2	173.2	276.6	566.7
<i>Medical Problems with Musculoskeletal Implications</i>	16.1	41.9	142.4	113.5	313.9
<i>Vitamin D deficiency (Rickets Disease)</i>	39.4	20.7	30.8	167.2	258.1
Pain Syndromes [14]	20.0	605.4	357.1	1,802.3	2,784.8
<b>Total Children and Adolescent Musculoskeletal Related Diagnoses</b>	<b>503.9</b>	<b>4,954.4</b>	<b>3,254.6</b>	<b>9,351.8</b>	<b>18,064.7</b>
Proportion of Total Visits	2.8%	27.4%	18.0%	51.8%	
<b>All Children and Adolescent Patients</b>	<b>6,306.4</b>	<b>32,554.0</b>	<b>34,892.9</b>	<b>172,357.4</b>	<b>246,110.7</b>
Proportion MSK of all Children and Adolescent Patients	8.0%	15.2%	9.3%	5.4%	7.3%

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Related Diagnoses [1] (in 1,000s)

<u>Hospital</u> <u>Discharges [2]</u>	<u>Emergency</u> <u>Department [3]</u>	<u>Outpatient</u> <u>Clinic [4]</u>	<u>Physician Office</u> <u>Visits [5]</u>	<u>Total</u>
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\* Data does not meet standards for reliability

[1] The number of possible diagnoses varies by database: NIS=25; NEDS=15, NHAMCS\_OP=3; NAMCS=3.

[2] 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>

[3] Source: HCUP Nationwide Emergency Department Sample (NEDS). Healthcare Cost and Utilization Project (HCUP). 2013. Agency for Healthcare Research and Quality, Rockville, MD. [www.hcup-us.ahrq.gov/nedsoverview.jsp](http://www.hcup-us.ahrq.gov/nedsoverview.jsp)

[4] Source: National Hospital Ambulatory Medical Care Survey\_Outpatient Department (NHAMCS\_OP), 2008-2011. [www.cdc.gov/nchs/ahcd/ahcd\\_questionnaires.htm](http://www.cdc.gov/nchs/ahcd/ahcd_questionnaires.htm)

[5] Source: National Ambulatory Medical Care Survey (NAMCS), 2008-2014. [www.cdc.gov/nchs/ahcd/ahcd\\_questionnaires.htm](http://www.cdc.gov/nchs/ahcd/ahcd_questionnaires.htm)

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

[7] Includes polydactyl, syndactyly, 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 conditions.

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