

**Table 3.1.2: Prevalence of Spinal Deformity Disorders by Age, United States, Summary Years 2008-2011**

	Total	Age in Years					Ave Age for Dx
		<18	18-44	45-64	65-74	75 & over	
<b>Hospital Discharges, 2011 [1]</b>							
Total Number of Hospital Discharges for Spinal Deformity Disorders (in 000s)							
Curvature of spine	229.1	20.1	40.7	50.0	37.1	81.0	59.6
Idiopathic	155.9	16.1	34.4	33.8	23.7	47.9	56.2
Acquired	66.0	3.4	5.8	14.9	12.2	29.5	67.0
Secondary	10.5	0.9	0.8	2.1	1.9	4.8	66.0
Spondylolisthesis	146.1	0.8	14.1	60.0	41.0	30.2	62.8
Spinal fractures	334.3	5.6	47.5	69.9	51.4	159.8	67.3
Vertebral compression fractures	324.1	5.0	43.3	67.5	50.3	157.8	67.9
Traumatic fractures	12.4	0.6	5.0	3.0	1.4	2.4	49.1
Spinal infection	91.9	0.8	14.4	39.7	18.1	18.9	60.0
Tuberculosis of spine	0.5	*	*	0.2	*	*	55.0
Unspecified tuberculosis	*	*	*	*	*	*	*
Intraspinal abscess	16.6	0.2	2.6	8.1	3.6	2.2	58.3
Acute osteomyelitis	8.3	0.2	1.1	3.5	1.8	1.8	60.3
Chronic osteomyelitis	11.4	0.2	2.2	4.8	1.9	2.3	57.8
Discitis	64.8	0.2	9.7	27.7	13.1	14.1	60.8
Complications of surgery	58.7	9.0	15.1	18.8	8.2	7.5	47.0
Spondylopathies	350.8	4.8	59.1	153.2	65.8	67.8	58.9
All Spinal Deformity Disorders (3)	1,141.7	40.1	184.4	368.7	205.9	342.1	61.1
Rate Per 100 Patient Visits	3.0	0.7	2.0	3.8	3.8	4.1	
Diagnoses Per 100 U.S. Population [4]	0.4	0.1	0.2	0.5	0.9	1.8	
<b>Emergency Department Visits, 2010 [2]</b>							
Total Number of Emergency Department Visits for Spinal Deformity Disorders (in 000s)							
Curvature of spine	247.2	19.7	88.1	48.2	22.1	69.0	51.9
Idiopathic	199.8	17.5	79.1	40.4	16.5	46.3	48.9
Acquired	41.1	1.8	7.9	6.7	4.7	20.0	65.0
Secondary	8.1	0.6	1.7	1.4	1.0	3.4	61.4
Spondylolisthesis	39.3	0.7	7.2	11.9	6.2	13.3	62.1
Spinal fractures	461.0	13.5	96.6	101.5	58.4	190.9	62.8
Vertebral compression fractures	448.8	12.8	91.5	98.4	57.3	188.8	63.2
Traumatic fractures	14.7	0.8	6.1	3.9	1.4	2.5	48.0
Spinal infection	93.1	0.8	27.3	38.1	12.6	14.3	54.3
Tuberculosis of spine	0.6	*	0.2	0.2	*	*	47.2
Unspecified tuberculosis	*	*	*	*	*	*	*
Intraspinal abscess	9.3	*	1.5	4.5	1.8	1.3	57.6
Acute osteomyelitis	5.0	*	0.9	1.8	1.0	1.2	60.0
Chronic osteomyelitis	7.5	*	1.7	2.9	1.3	1.5	57.1
Discitis	75.2	0.5	23.8	30.7	9.2	11.1	53.5
Complications of surgery	47.6	9.2	12.4	12.6	6.1	7.2	45.4
Spondylopathies	1,638.0	115.3	761.0	512.9	114.0	134.8	43.7
All Spinal Deformity Disorders (3)	2,476.5	157.7	981.1	712.8	213.4	411.3	48.4
Rate Per 100 Patient Visits	1.9	0.6	1.9	2.5	2.4	3.1	
Diagnoses Per 100 U.S. Population [4]	0.8	0.2	0.9	0.9	1.0	2.2	
<b>Hospital Outpatient Visits, Annual Average 2008-2010 [3]</b>							
Total Number of Outpatient Department Visits for Spinal Deformity Disorders (in 000s)							
Curvature of spine	214.4	140.5	25.9	*	*	*	26.7
Idiopathic	186.7	133.3	*	*	*	*	23.2
Acquired	17.1	*	*	*	*	*	*
Secondary	*	*	*	*	*	*	*
Spondylolisthesis	42.5	*	*	*	*	*	*
Spinal fractures	76.0	*	*	*	*	*	*
Vertebral compression fractures	76.0	*	*	*	*	*	*
Traumatic fractures	*	*	*	*	*	*	*
Spinal infection	93.9	*	*	42.3	*	*	45.0
Tuberculosis of spine	*	*	*	*	*	*	*
Unspecified tuberculosis	0.0	0.0	0.0	0.0	0.0	0.0	NA
Intraspinal abscess	0.0	0.0	0.0	0.0	0.0	0.0	NA
Acute osteomyelitis	*	*	*	*	*	*	*
Chronic osteomyelitis	7.6	*	*	*	*	*	*
Discitis	81.5	*	*	36.3	*	*	44.8
Complications of surgery	10.5	*	*	*	*	*	*
Spondylopathies	578.5	*	161.6	257.8	67.3	52.5	48.6
All Spinal Deformity Disorders (5)	795.7	65.6	235.9	319.4	93.3	81.4	48.4
Rate Per 100 Patient Visits	0.8	0.3	0.8	1.2	0.9	0.9	
Diagnoses Per 100 U.S. Population [6]	0.3	0.1	0.2	0.4	0.4	0.4	

	Total	Age in Years					Ave Age for Dx
		<18	18-44	45-64	65-74	75 & over	
<b>Physician Office Visits, Annual Average 2008-2010 [4]</b>							
Total Number of Physician Visits for Spinal Deformity Disorders (in 000s)							
Curvature of spine	1,582.8	*	*	*	*	*	*
Idiopathic	1,268.9	*	*	*	*	*	*
Acquired	*	*	*	*	*	*	*
Secondary	*	*	*	*	*	*	*
Spondylolisthesis	550.8	*	*	*	*	*	*
Spinal fractures	*	*	*	*	*	*	*
Vertebral compression fractures	*	*	*	*	*	*	*
Traumatic fractures	*	*	*	*	*	*	*
Spinal infection	1,592.6	*	*	727.7	*	*	57.6
Tuberculosis of spine	*	*	*	*	*	*	*
Unspecified tuberculosis	*	*	*	*	*	*	*
Intraspinal abscess	*	*	*	*	*	*	*
Acute osteomyelitis	*	*	*	*	*	*	*
Chronic osteomyelitis	*	*	*	*	*	*	*
Discitis	1,558.1	*	*	711.2	*	*	57.5
Complications of surgery	*	*	*	*	*	*	*
Spondylopathies	8,422.8	*	2,168.0	4,160.5	940.4	856.7	51.9
All Spinal Deformity Disorders (5)	12,178.5	*	2,808.7	5,389.5	1,637.0	1,517.8	
Rate Per 100 Patient Visits	1.2	0.4	1.1	1.8	1.2	1.2	
Diagnoses Per 100 U.S. Population [6]	3.9	1.1	2.5	6.6	7.5	8.2	

#### Total Health Care Visits for Spinal Deformity Disorders

	Total Number of Health Care Visits for Spinal Deformity Disorders (in 000s)					
Curvature of spine	2,273.5	663.7	460.7	464.1	232.4	452.3
Idiopathic	1,811.3	609.8	424.0	310.1	171.8	295.6
Acquired	419.0	50.0	32.2	151.6	58.4	126.7
Secondary	83.8	4.4	5.4	4.0	2.9	67.1
Spondylolisthesis	778.7	14.5	72.6	302.2	231.1	158.4
Spinal fractures	933.0	26.3	184.9	206.9	124.7	390.1
Vertebral compression fractures	895.4	25.0	175.5	201.4	110.9	382.4
Traumatic fractures	42.4	1.4	11.2	6.9	14.4	8.5
Spinal infection	1,871.5	13.9	359.2	847.8	398.5	252.3
Tuberculosis of spine	4.7	3.4	0.3	0.7	0.2	0.9
Unspecified tuberculosis	0.0	0.0	0.0	0.0	0.0	0.0
Intraspinal abscess	25.9	0.4	4.1	12.6	5.4	3.5
Acute osteomyelitis	23.9	0.3	2.0	15.5	3.1	3.0
Chronic osteomyelitis	51.8	0.3	11.4	19.7	15.2	5.0
Discitis	1,779.6	9.7	343.3	805.9	377.7	243.1
Complications of surgery	261.9	80.2	56.7	49.7	21.8	53.4
Spondylopathies	10,990.1	456.8	3,149.7	5,084.4	1,187.5	1,111.8
All Spinal Deformity Disorders (5)	16,592.4	1,088.9	4,210.1	6,790.4	2,149.6	2,352.6
Rate Per 100 Patient Visits	1.3	0.4	1.2	1.9	1.4	1.5
Diagnoses Per 100 U.S. Population [6]	5.4	1.5	3.7	8.3	9.8	12.6

\* Estimate does not meet standards for reliability.

[1] Source: HCUP Nationwide Inpatient Sample (NIS). Healthcare Cost and Utilization Project (HCUP). 2011. Agency for Healthcare Research and Quality, Rockville, MD. [www.hcup-us.ahrq.gov/nisoverview.jsp](http://www.hcup-us.ahrq.gov/nisoverview.jsp)

[2] Source: HCUP Nationwide Emergency Department Sample (NEDS). Healthcare Cost and Utilization Project (HCUP). 2010. Agency for Healthcare Research and Quality, Rockville, MD. [www.hcup-us.ahrq.gov/nedsoverview.jsp](http://www.hcup-us.ahrq.gov/nedsoverview.jsp)

[3] Source: National Hospital Ambulatory Medical Care Survey\_Outpatient Department (NHAMCS\_OP), 2008, 2009, 2010. [www.cdc.gov/nchs/ahcd/ahcd\\_questionnaires.htm](http://www.cdc.gov/nchs/ahcd/ahcd_questionnaires.htm) April 23, 2013.

[4] Source: National Ambulatory Medical Care Survey (NAMCS), 2008, 2009, 2010. [www.cdc.gov/nchs/ahcd/ahcd\\_questionnaires.htm](http://www.cdc.gov/nchs/ahcd/ahcd_questionnaires.htm) April 23, 2013.

[5] Total visits may be lower than sum of diagnoses due to multiple diagnoses per patient.

[6] Adjusted to 2010 U.S. Census Population Estimates. There is the potential for multiple diagnoses per person which is not accounted for.