**Table 3.1.1:** Prevalence of Spinal Deformity Disorders by Gender, United States, Summary Years 2008-2011

| | Prevalence (in 000s) | | | % of Total | |
|---|---|---|---|---|---|
| | Total | Male | Female | Male | Female |
| **Hospital Discharges, 2011 [1]** | Total Number of Hospital Discharges for Spinal Deformity Disorders | | | | |
| Curvature of spine | 229.1 | 61.3 | 167.6 | 27% | 73% |
| Idiopathic | 155.9 | 38.8 | 116.9 | 25% | 75% |
| Acquired | 66.0 | 20.6 | 45.4 | 31% | 69% |
| Secondary | 10.5 | * | 7.7 | 27% | 73% |
| Spondylolisthesis | 146.1 | 53.9 | 92.2 | 37% | 63% |
| Spinal fractures | 334.3 | 137.8 | 196.3 | 41% | 59% |
| Vertebral compression fractures | 324.1 | 130.6 | 193.4 | 40% | 60% |
| Traumatic fractures | 12.4 | 8.6 | 3.7 | 69% | 30% |
| Spinal infection | 91.9 | 48.1 | 43.7 | 52% | 48% |
| Tuberculosis of spine | * | * | * | * | * |
| Unspecified tuberculosis | 0.0 | * | * | * | * |
| Intraspinal abscess | 16.6 | 10.0 | 6.6 | 60% | 40% |
| Acute osteomylitis | 8.3 | 4.6 | * | 55% | 45% |
| Chronic osteomylitis | 11.4 | 6.6 | 4.8 | 58% | 42% |
| Discitis | 64.8 | 32.8 | 32.0 | 51% | 49% |
| Complications of surgery | 58.7 | 28.0 | 30.6 | 48% | 52% |
| Spondylopathies | 350.8 | 171.3 | 179.2 | 49% | 51% |
| All Spinal Deformity Disorders (3) | 1,141.7 | 474.5 | 666.4 | 42% | 58% |
| Rate Per 100 Patient Visits | 3.0 | 2.9 | 3.0 | | |
| Diagnoses Per 100 U.S. Population [4] | 0.4 | 0.3 | 0.4 | | |
| **Emergency Department Visits, 2010 [2]** | Total Number of Emergency Department Visits for Spinal Deformity Disorders | | | | |
| Curvature of spine | 247.2 | 65.2 | 182.0 | 26% | 74% |
| Idiopathic | 199.8 | 52.2 | 147.6 | 26% | 74% |
| Acquired | 41.1 | 11.4 | 29.7 | 28% | 72% |
| Secondary | 8.1 | 2.0 | 6.1 | 25% | 75% |
| Spondylolisthesis | 39.3 | 14.1 | 25.2 | 36% | 64% |
| Spinal fractures | 461.0 | 198.0 | 262.9 | 43% | 57% |
| Vertebral compression fractures | 448.8 | 189.7 | 259.0 | 42% | 58% |
| Traumatic fractures | 14.7 | 10.0 | 4.6 | 68% | 31% |
| Spinal infection | 93.1 | 45.8 | 47.3 | 49% | 51% |
| Tuberculosis of spine | 0.6 | 0.2 | 0.4 | 33% | 67% |
| Unspecified tuberculosis | * | * | * | * | * |
| Intraspinal abscess | 9.3 | 5.7 | 3.6 | 61% | 39% |
| Acute osteomylitis | 5.0 | 2.7 | 2.3 | 54% | 46% |
| Chronic osteomylitis | 7.5 | 4.6 | 2.9 | 61% | 39% |
| Discitis | 75.2 | 35.4 | 39.8 | 47% | 53% |
| Complications of surgery | 47.6 | 24.2 | 23.4 | 51% | 49% |
| Spondylopathies | 1,638.0 | 674.4 | 963.5 | 41% | 59% |
| All Spinal Deformity Disorders (3) | 2,476.5 | 1,003.0 | 1,473.3 | 41% | 59% |
| Rate Per 100 Patient Visits | 1.9 | 1.7 | 2.1 | | |
| Diagnoses Per 100 U.S. Population [4] | 0.8 | 0.7 | 0.9 | | |
| **Hospital Outpatient Visits, Annual Average 2008-2010 [3]** | Total Number of Outpatient Department Visits for Spinal Deformity Disorders | | | | |
| Curvature of spine | 214.4 | 54.0 | 160.4 | 25% | 75% |
| Idiopathic | 186.7 | 49.5 | 137.2 | 27% | 73% |
| Acquired | 17.1 | * | * | * | * |
| Secondary | * | * | * | * | * |
| Spondylolisthesis | 42.5 | * | * | * | * |
| Spinal fractures | 76.0 | 35.3 | 40.7 | 46% | 54% |
| Vertebral compression fractures | 76.0 | 35.3 | 40.6 | 46% | 53% |
| Traumatic fractures | * | * | * | * | * |
| Spinal infection | 93.9 | 53.4 | 40.6 | 57% | 43% |
| Tuberculosis of spine | * | * | * | * | * |
| Unspecified tuberculosis | 0.0 | * | * | * | * |
| Intraspinal abscess | 0.0 | * | * | * | * |
| Acute osteomylitis | * | * | * | * | * |
| Chronic osteomylitis | 7.6 | * | * | * | * |
| Discitis | 81.5 | 45.4 | 36.1 | 56% | 44% |
| Complications of surgery | 10.5 | * | * | * | * |
| Spondylopathies | 578.5 | 224.6 | 353.9 | 39% | 61% |
| All Spinal Deformity Disorders (5) | 795.7 | 330.1 | 465.6 | 41% | 59% |
| Rate Per 100 Patient Visits | 0.8 | 0.8 | 0.8 | | |
| Diagnoses Per 100 U.S. Population [6] | 0.3 | 0.2 | 0.3 | | |

| | Prevalence (in 000s) | | | % of Total | |
|---|---|---|---|---|---|
| | Total | Male | Female | Male | Female |
| **Physician Office Visits, Annual Average 2008-2010 [4]** | Total Number of Physician Visits for Spinal Deformity Disorders | | | | |
| Curvature of spine | 1,582.8 | 415.3 | 1,167.5 | 26% | 74% |
| Idiopathic | 1,268.9 | * | 950.7 | 25% | 75% |
| Acquired | * | * | * | 26% | 74% |
| Secondary | * | * | * | 35% | 65% |
| Spondylolisthesis | 550.8 | * | * | 29% | 71% |
| Spinal fractures | * | * | * | 29% | 71% |
| Vertebral compression fractures | * | * | * | 13% | 87% |
| Traumatic fractures | * | * | * | 76% | 24% |
| Spinal infection | 1,592.6 | 717.0 | 875.7 | 45% | 55% |
| Tuberculosis of spine | 0.0 | 0.0 | 0.0 | 0% | 0% |
| Unspecified tuberculosis | 0.0 | 0.0 | 0.0 | 0% | 0% |
| Intraspinal abscess | 0.0 | 0.0 | 0.0 | 0% | 0% |
| Acute osteomylitis | * | * | * | 0% | 100% |
| Chronic osteomylitis | * | * | * | 71% | 28% |
| Discitis | 1,558.1 | 698.9 | 859.2 | 45% | 55% |
| Complications of surgery | * | * | * | 50% | 50% |
| Spondylopathies | 8,422.8 | 3,392.4 | 5,030.4 | 40% | 60% |
| All Spinal Deformity Disorders (5) | 12,178.5 | 4,731.1 | 7,447.3 | 39% | 61% |
| Rate Per 100 Patient Visits | 1.2 | 1.1 | 1.3 | | |
| Diagnoses Per 100 U.S. Population [6] | 3.9 | 3.1 | 4.7 | | |

**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 | 595.8 | 1,677.5 | 26% | 74% |
| Idiopathic | 1,811.3 | 458.7 | 1,352.4 | 25% | 75% |
| Acquired | 419.0 | 114.3 | 304.7 | 27% | 73% |
| Secondary | 83.8 | 24.1 | 59.7 | 29% | 71% |
| Spondylolisthesis | 778.7 | 242.9 | 535.8 | 31% | 69% |
| Spinal fractures | 933.0 | 388.7 | 544.0 | 42% | 58% |
| Vertebral compression fractures | 895.4 | 361.6 | 533.5 | 40% | 60% |
| Traumatic fractures | 42.4 | 30.2 | 12.0 | 71% | 28% |
| Spinal infection | 1,871.5 | 864.3 | 1,007.3 | 46% | 54% |
| Tuberculosis of spine | 4.7 | 3.8 | 1.0 | 81% | 21% |
| Unspecified tuberculosis | 0.0 | 0.0 | 0.0 | * | * |
| Intraspinal abscess | 25.9 | 15.7 | 10.2 | 61% | 39% |
| Acute osteomylitis | 23.9 | 8.1 | 15.8 | 34% | 66% |
| Chronic osteomylitis | 51.8 | 33.1 | 18.6 | 64% | 36% |
| Discitis | 1,779.6 | 812.5 | 967.1 | 46% | 54% |
| Complications of surgery | 261.9 | 130.2 | 131.6 | 50% | 50% |
| Spondylopathies | 10,990.1 | 4,462.7 | 6,527.0 | 41% | 59% |
| All Spinal Deformity Disorders (5) | 16,592.4 | 6,538.7 | 10,052.6 | 39% | 61% |
| Rate Per 100 Patient Visits | 1.3 | 1.2 | 1.4 | | |
| Diagnoses Per 100 U.S. Population [6] | 5.4 | 4.3 | 6.4 | | |

* 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

[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

[3] Source: National Hospital Ambulatory Medical Care Survey_Outpatient Department (NHAMCS_OP), 2008, 2009, 2010. 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 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.