

Table 3.5.1: Proportion of Hospital Stays for Spinal Deformity (SD) Involving Surgical Procedure, United States, 2010/2011

NIS: Hospital Discharges, 2011 [1]

	Total Discharges/ Visits (in 000s)	Proportion of Hospital Discharges Involving Procedure				
		Instrumentation		Decompression		Epidural Injection
		Spinal Fusion	(insertion of device)	Kyphoplasty/ Vertebroplasty	(Discectomy/ Laminectomy)	
Scoliosis/Curvature of spine	229.1	21.9%	13.3%	1.1%	12.0%	0.3%
Spondylolisthesis	146.1	75.5%	55.9%	0.8%	51.0%	0.4%
Spinal fracture/trauma	334.3	8.8%	4.1%	10.6%	3.5%	0.4%
Spinal infection	91.9	10.2%	6.8%	0.3%	13.6%	0.3%
Complications of spinal surgery	58.7	1.7%	1.0%	0.1%	2.7%	0.1%
Spondylopathies	350.8	28.4%	16.4%	0.2%	25.3%	0.5%
All Spinal Deformity Disorders	1,141.7	23.2%	14.7%	3.2%	17.1%	0.4%
Total Procedures for Spinal Deformity Discharges (in 000s)		265.3	167.4	36.1	195.0	4.4
Proportion of SD Discharges w/Procedure to All Discharges	3%	55%	53%	97%	38%	9%
Total Hospital Discharges (in 000s)	38,590.7	1.2%	0.8%	0.1%	1.3%	0.1%
Total Procedures for Hospital Discharges (in 000s)		478.7	315.4	37.1	516.6	49.9

NEDS: Emergency Department Transfers to Inpatient Procedures, 2010 [2]

Scoliosis/Curvature of spine	98.5	1.8%	1.0%	1.1%	1.0%	0.3%
Spondylolisthesis	17.4	13.1%	8.7%	2.8%	10.1%	1.2%
Spinal fracture/trauma	269.9	6.7%	2.5%	9.5%	2.3%	0.4%
Spinal infection	47.3	3.5%	1.7%	0.3%	7.9%	0.4%
Complications of spinal surgery	29.3	0.3%	0.1%	0.1%	1.2%	0.0%
Spondylopathies	147.7	5.3%	2.5%	0.3%	4.8%	0.7%
All Spinal Deformity Disorders	586.0	4.7%	2.0%	4.4%	3.0%	0.4%
Total Procedures for Spinal Deformity Discharges (in 000s)		27.8	11.8	25.8	17.8	2.5
Proportion of SD Discharges w/Procedure to All Discharges	3%	78%	70%	98%	44%	10%
Total ED Transfers to Inpatient Discharges (in 000s)	19,733.5	0.2%	0.1%	0.1%	0.2%	0.1%
Total Procedures for ED Inpatient Discharges (in 000s)		35.8	16.9	26.2	40.3	23.9

NHDS: National Hospital Discharge Survey [3]

Scoliosis/Curvature of spine	125.1	29.9%	7.7%	3.7%	13.7%	0.1%
Spondylolisthesis	110.6	75.4%	25.8%	0.4%	45.4%	1.0%
Spinal fracture/trauma	343.2	8.3%	1.2%	14.5%	2.6%	0.1%
Spinal infection	61.0	8.5%	1.3%	0.2%	14.5%	0.1%
Complications of spinal surgery	54.6	2.2%	0.4%	0.0%	3.3%	0.1%
Spondylopathies	219.4	30.3%	9.4%	0.1%	27.9%	0.5%
All Spinal Deformity Disorders	878.6	23.3%	6.8%	5.7%	15.7%	0.3%
Total Procedures for Spinal Deformity Discharges (in 000s)		204.9	59.9	50.2	138.2	2.6
Proportion of SD Discharges w/Procedure to All Discharges	2%	47%	44%	97%	31%	5%
Total Hospital Discharges (in 000s)	38,919.2	1.1%	0.3%	0.1%	1.1%	0.1%
Total Procedures for Hospital Discharges (in 000s)		435.9	137.0	52.0	446.6	47.9

[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] 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 Discharge Survey (NHDS), Annual Average Merged Years 2008 to 2010. www.cdc.gov/nchs/nhds/nhds_questionnaires.htm April 23, 2013.