

Table 3.5.3: Spinal Fusion for Spinal Deformity Fractures^[1] by Site and Number of Levels Involved, United States 2010/2011

	NIS [2]		NEDS-IP [3,4]		NHDS [5]		Average of Three Databases	
	N (in 000s)	% Total	N (in 000s)	% Total	N (in 000s)	% Total	N (in 000s)	% Total
By Site								
Cervical Fusion	10.9	37.0%	8.4	46.2%	11.5	40.6%	10.3	40.5%
Thoracic/Dorsal Fusion	11.3	38.2%	7.3	40.1%	10.3	36.2%	9.6	37.9%
Lumbar Fusion	9.0	30.4%	3.3	18.1%	7.8	27.2%	6.7	26.3%
Sacral Fusion	0.3	1.0%	*	0.4%	*	0.2%	0.4	0.6%
By Level								
< 5 levels fused	18.2	61.8%	12.2	67.0%	26.1	91.6%	18.8	74.2%
5 or more levels fused	11.6	39.2%	6.1	33.5%	2.5	8.8%	6.7	26.5%
Total Fusion Procedures on Spinal Fracture Discharges [6]								
	29.5		18.2		28.5		25.4	
Total Spinal Fracture Discharges								
	334.3		269.9		343.2		315.8	
Proportion with Fusion Procedure	8.8%		6.7%		8.3%		8.0%	

[1] Includes ICD-9-CM codes for vertebral compression fractures and traumatic fractures.

[2] 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

[3] 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

[4] Approximately 1 in 6 (15.3%) of emergency department visits resulted in the patient being admitted to the ED hospital. This group of patients form a separate, and unique, database of hospital discharge patients. In the 2010 NEDS data set, this constitutes 19.7 million hospital discharges.

[5] Source: National Hospital Discharge Survey (NHDS), Annual Average Merged Years 2008 to 2010.

www.cdc.gov/nchs/nhds/nhds_questionnaires.htm April 23, 2013.

[6] Sum of sites may be larger than overall total due to multiple sites included in the procedure.