Table 2B.2.4: Healthcare Visits for Conditions Contributing to Curvature of Spine Disorders by Region, United States, 2013

	Healthcare Visits (in 000s)					% of Total			
	Total	Northeast	Midwest	South	West	Northeast	Midwest	South	West
Hospital Discharges, 2013 [1]	Total Number of Hospital Discharges for Spinal Curvature Disorders								
Idiopathic scoliosis	161.0	29.0	36.5	61.9	33.6	18%	23%	38%	21%
Acquired/secondary scoliosis	20.3	3.5	4.8	7.0	5.0	17%	24%	34%	25%
Scoliosis	166.6	30.4	38.0	63.3	34.8	18%	23%	38%	21%
Kyphosis	44.9	7.9	11.0	16.8	9.2	18%	24%	37%	20%
Lordosis	4.1	0.5	1.4	1.4	0.8	12%	34%	34%	20%
Spondylolisthesis	144.6	21.4	34.5	56.3	32.4	15%	24%	39%	22%
Sagittal Deformity	190.5	29.5	46.1	73.3	41.6	15%	24%	38%	22%
All Spinal Curvature Disorders (5)	357.0	59.9	84.2	136.5	76.4	17%	24%	38%	21%
Rate Per 100 Patient Visits	1.0	0.9	1.1	1.0	1.1				
Diagnoses Per 100 U.S. Population [6]	0.1	0.1	0.1	0.1	0.1				
Emergency Department Visits, 2013 [2]	Total Number of Emergency Department Visits for Spinal Curvature Disorders								
Idiopathic scoliosis	229.7	33.6	50.1	103.2	42.8	15%	22%	45%	19%
Acquired/secondary scoliosis	14.7	2.7	3.0	6.0	3.0	18%	20%	41%	20%
Scoliosis	240.7	36.3	53.1	109.1	45.8	15%	22%	45%	19%
Kyphosis	30.5	5.7	7.7	12.0	5.1	19%	25%	39%	17%
Lordosis	3.4	0.5	0.7	1.9	0.4	15%	21%	56%	12%
Spondylolisthesis	45.3	6.2	10.7	17.6	10.7	14%	24%	39%	24%
Sagittal Deformity	78.6	12.3	19.0	31.3	16.0	16%	24%	40%	20%
All Spinal Curvature Disorders (5)	319.3	48.1	71.3	138.9	61.0	15%	22%	44%	19%
Rate Per 100 Patient Visits	0.2	0.2	0.2	0.3	0.2				
Diagnoses Per 100 U.S. Population [6]	0.1	0.1	0.1	0.1	0.1				
Hospital Outpatient Visits, 2011 [3]	Total Number of Outpatient Department Visits for Spinal Curvature Disorders								
Idiopathic scoliosis	246.4	78.6	55.6	99.2	*	32%	23%	40%	*
Acquired/secondary scoliosis	37.1	*	*	*	*	*	*	*	*
Scoliosis	282.5	85.7	56.8	114.6	25.3	30%	20%	41%	9%
Kyphosis	*	*	*	*	*	*	*	*	*
Lordosis	*	*	*	*	*	*	*	*	*
Spondylolisthesis	78.7	*	*	*	*	*	*	*	*
Sagittal Deformity	97.3	*	*	*	*	*	*	*	*
All Spinal Curvature Disorders (5)	379.8	102.3	68.3	139.5	69.6	27%	18%	37%	18%
Rate Per 100 Patient Visits	0.3	0.3	0.2	0.4	0.4				
Diagnoses Per 100 U.S. Population [6]	0.1	0.2	0.1	0.1	0.1				

Table 2B.2.4: Healthcare Visits for Conditions Contributing to Curvature of Spine Disorders by Region, United States, 2013

	Healthcare Visits (in 000s)					% of Total			
	Total	Northeast	Midwest	South	West	Northeast	Midwest	South	West
Physician Office Visits, 2013 [4]	Total Number of Physician Visits for Spinal Curvature Disorders								
Idiopathic scoliosis	1,164.6	235.7	178.3	481.4	269.2	20%	15%	41%	23%
Acquired/secondary scoliosis	145.4	*	*	*	*	*	*	*	*
Scoliosis	1,273.7	254.2	191.4	530.1	298.0	20%	15%	42%	23%
Kyphosis	121.5	*	*	*	*	*	*	*	*
Lordosis	*	*	*	*	*	*	*	*	*
Spondylolisthesis	719.8	*	141.8	340.0	134.3	*	20%	47%	19%
Sagittal Deformity	898.9	*	166.5	437.7	154.7	*	19%	49%	17%
All Spinal Curvature Disorders (5)	2,172.6	394.3	357.8	967.8	452.7	18%	16%	45%	21%
Rate Per 100 Patient Visits	0.2	0.2	0.2	0.3	0.2				
Diagnoses Per 100 U.S. Population [6]	0.7	0.7	0.5	0.8	0.6				
Total Health Care Visits for Spinal Deformity Disorders	Total Number of Health Care Visits All Sources for Spinal Curvature Disorders								
Idiopathic scoliosis	1,801.7	376.9	320.5	745.7	*	21%	18%	41%	*
Acquired/secondary scoliosis	217.5	*	*	*	*	*	*	*	*
Scoliosis	1,963.5	406.6	339.3	817.1	403.9	21%	17%	42%	21%
Kyphosis	*	*	*	*	*	*	*	*	*
Lordosis	*	*	*	*	*	*	*	*	*
Spondylolisthesis	988.4	*	*	*	*	*	*	*	*
Sagittal Deformity	1,265.3	41.80	231.6	542.3	212.3	3%	18%	43%	17%
All Spinal Curvature Disorders (5)	3,228.7	604.6	581.6	1,382.7	659.7	19%	18%	43%	20%
Rate Per 100 Patient Visits	0.3	0.2	0.2	0.3	0.2				
Diagnoses Per 100 U.S. Population [6]	1.0	1.1	0.9	1.2	0.9				

* Estimate does not meet standards for reliability

[1] Source: HCUP National Inpatient Sample (NIS). Healthcare Cost and Utilization Project (HCUP). 2013. 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). 2013. 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), 2011. www.cdc.gov/nchs/ahcd/ahcd_questionnaires.htm May 23, 2016. Mean weighted cases per year.

[4] Source: National Ambulatory Medical Care Survey (NAMCS), 2013. www.cdc.gov/nchs/ahcd/ahcd_questionnaires.htm January 14, 2016. Mean weighted cases per year.

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

[6] Source: United States: 2010 Summary Population and Housing Characteristics, 2010 Census of Population and Housing. Issued January 2013. United States Census Bureau, U. S. Department of Commerce. http://www.census.gov/prod/cen2010/cph-1-1.pdf (September 16, 2013) Adjusted to 2010 U.S. Census Population Estimates. There is the potential for multiple diagnoses per person which is not accounted for.