

American Spine Registry (ASR) 2022 Fact Sheet

This report provides a preview into the recently launched American Spine Registry (ASR).

Thank you to the ASR Executive Committee and ASR Data Use Committee for their contributions and leadership in bringing this registry report to fruition.

The American Spine Registry (ASR), a partnership between the American Association of Neurological Surgeons (AANS) and the American Academy of Orthopaedic Surgeons (AAOS), represents a collaboration to enhance and improve the quality of spine care by providing spine surgeons in all 50 states and the District of Columbia with access to a shared data-collection program. The partnership incorporates the resources and experience of both organizations.

ASR launched in January 2020 with two modules: Degenerative Lumbar Spine and Degenerative Cervical Spine.

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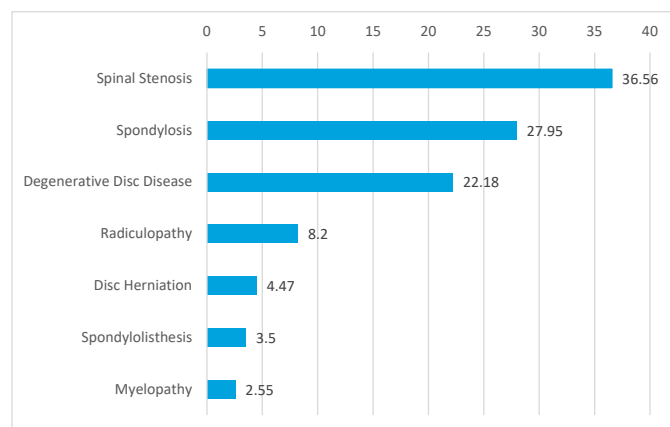
ASR Data Use Committee

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Table 1 ASR Case Volume

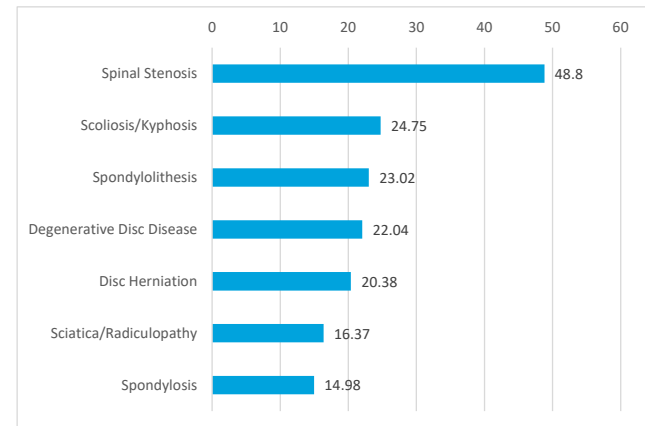
Module	Procedures	Patients
Cervical	23,571	20,095
Lumbar	38,564	34,753

Figure 1 Cervical Rates of Reported Diagnoses (N=23,571)*



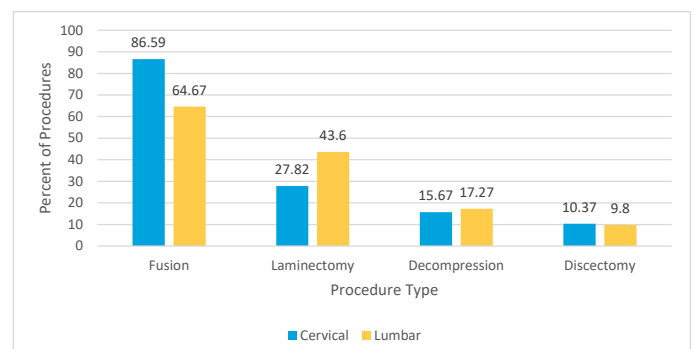
*Cases may include more than one diagnosis

Figure 2 Lumbar Rates of Reported Diagnoses (N=38,564)*



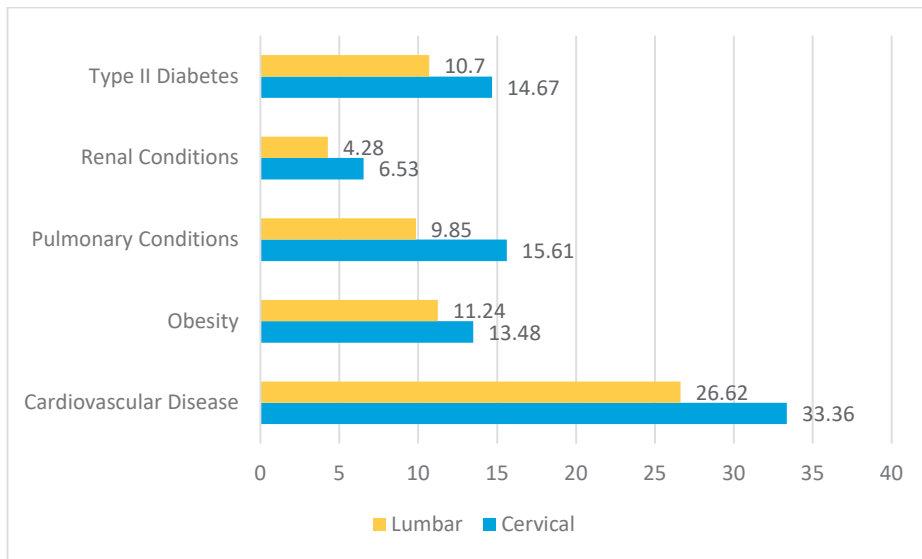
*Cases may include more than one diagnosis

Figure 3 ASR Rates of Reported Procedure Types (Cervical N = 38,564; Lumbar N = 23,571)*



*Cases may include more than one procedure

Figure 4 ASR Comorbidity Rates (Cervical N = 23,571; Lumbar N = 38,564)*



*Cases may include more than one comorbidity diagnosis

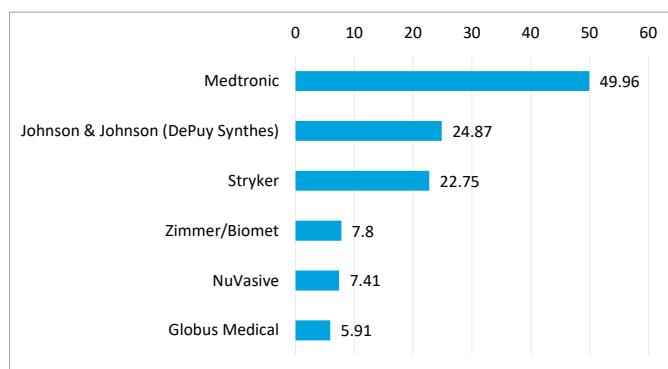
Table 2 Cervical Fusion/Approach Rates (Vanguard Operative Form)

	Fusion	Approach		
	Total (N=4,759)	Anterior (N=3,726)	Posterior (N=993)	Combined (N=40)
Fusion	3,512 (73.8%)	3,017 (85.9%)	473 (13.5%)	22 (0.6%)
Non-Fusion	1,247 (26.2%)	709 (56.9%)	520 (41.7%)	18 (1.4%)

Table 3 Lumbar Fusion/Approach Rates (Vanguard Operative Form)

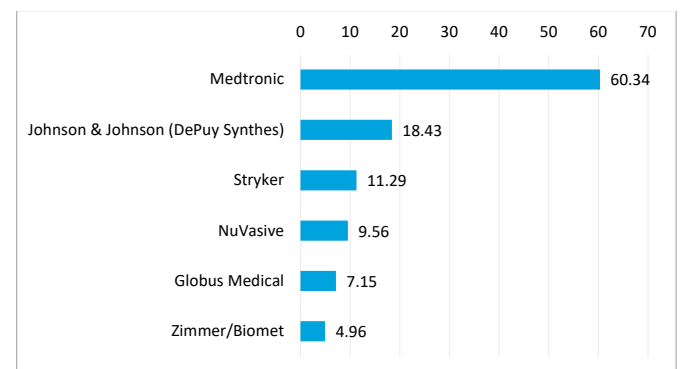
	Fusion	Approach			
	Total (N=9,097)	Anterior/Oblique (N=261)	Transposas (N=236)	Posterior (N=8,335)	Combined (N=265)
Fusion	3,802 (41.8%)	185 (4.9%)	174 (4.6%)	3,235 (85.1%)	208 (5.5%)
Non-Fusion	5,295 (58.2%)	76 (1.4%)	62 (1.2%)	5,100 (96.3%)	57 (1.1%)

Figure 5 Cervical Instrumentation Manufacturer Rates (N=17,795)*



*Includes cases with at least one implant. Usage may include non-implant products such as bone graft materials or navigation disposables produced by instrumentation manufacturers.

Figure 6 Lumbar Instrumentation Manufacturer Rates (N=18,289)*



*Includes cases with at least one implant. Usage may include non-implant products such as bone graft materials or navigation disposables produced by instrumentation manufacturers.