

Table S1 Example detailed search strategy (PubMed/MEDLINE)

Step	Search query (PubMed syntax)	Limits/filters	Records retrieved (n)
1	("interspinous device"[Title/Abstract] OR "interlaminar fixation"[Title/Abstract] OR "interlaminar stabilization"[Title/Abstract] OR "interspinous process device"[Title/Abstract] OR InSpan[Title/Abstract])	None	–
2	("lumbar spinal stenosis"[Title/Abstract] OR "Spinal Stenosis"[MeSH Terms] OR spondylolisthesis[Title/Abstract] OR "Spondylolisthesis"[MeSH Terms] OR "disc herniation"[Title/Abstract] OR "Intervertebral Disc Displacement"[MeSH Terms])	None	–
3	(lumbar[Title/Abstract] OR "Lumbar Vertebrae"[MeSH Terms])	None	–
4	#1 AND #2 AND #3	None	–
5	#4	Humans; English; publication date: database inception to 30 Nov 2025 (pdat)	–

Database platform: PubMed (National Library of Medicine). Search conducted through November 2025 (last searched: November 2025). The above search string is provided as an example of the detailed search strategy for one database, as requested by the editor. Additional references were identified by screening bibliographies of key articles and device-specific publications. During screening, priority was given to prospective studies, randomized controlled trials, biomechanical investigations, and clinical series with ≥ 2 -year follow-up (as described in the Methods).