superion®
Indirect Decompression System

Setting a new standard.

vertiflex®

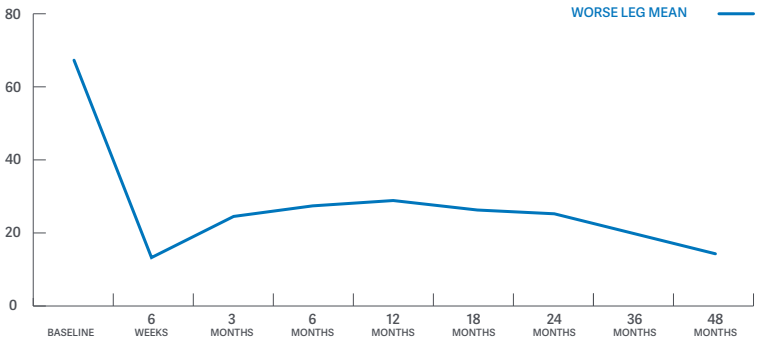
A new standard of care for lumbar stenosis.

Superion represents a new, minimally invasive approach to treating lumbar stenosis that fills a gap in the continuum between conservative care and invasive surgery. Designed with patient safety and comfort in mind, Superion's posterior midline approach can be an outpatient procedure with minimal blood loss and no resection of anatomical structures—providing physicians with more treatment options, and patients with new alternatives for a pain-free life.

FDA PMA approved, Superion is clinically shown to be effective for up to 48 months.

Superion 4 Year Trial Data (VAS)

Immediate and Durable Clinically Significant Improvement



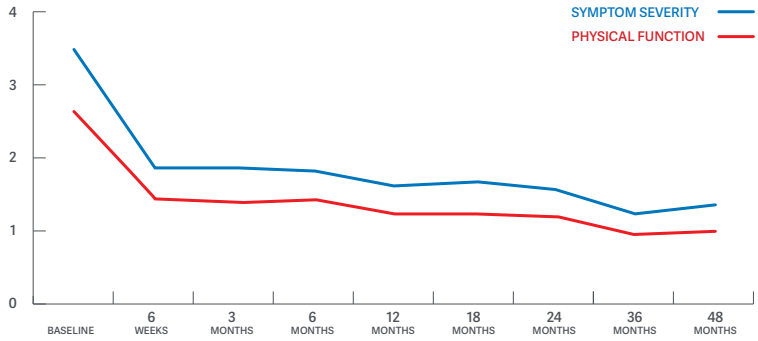
48 Months Clinical Improvement

- Leg Pain Reduction 79%

superion® Indirect Decompression System

Superion 4 Year Trial Data (ZCQ)

Immediate and Durable Clinically Significant Improvement



Success Rate in Patients Reaching 48 Months.

- Symptom Severity: 83%
- Physical Function: 79%

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The results are clear.

Prospective, randomized, controlled, multi-center trial. 470 patients. 29 sites. Plus a 24-month follow-up and annually thereafter through 60 months. Our claim to clinically proven efficacy is backed by Level One Evidence generated from the most extensive device clinical trial ever conducted on lumbar stenosis—which speaks to Superion's effectiveness in reducing the symptoms of spinal stenosis.

Functional improvement & patient satisfaction at 48 months

ZCQ Responder Success Rate (Pain & Function)

	24 Months	36 Months	48 Months
ZCQ Responder	82%	88%	84%
Physical Function	73%	80%	79%
Symptom Severity	77%	84%	83%
Patient Satisfaction	84%	92%	87%
Safety (No Reoperations)	80%	78%	76%

Other Sequelae of Interest:

- Early re-hospitalizations: 0%
- Infections: 0%
- Dural tears: 0.5%
- Radiographic:
  - 3% (Unhealed FX and ZCQ failure)[1]
  - 2% (FX prompting reoperations)[2]

[1] Included in calculation of ZCQ success

[2] Included in calculation of reoperation rate

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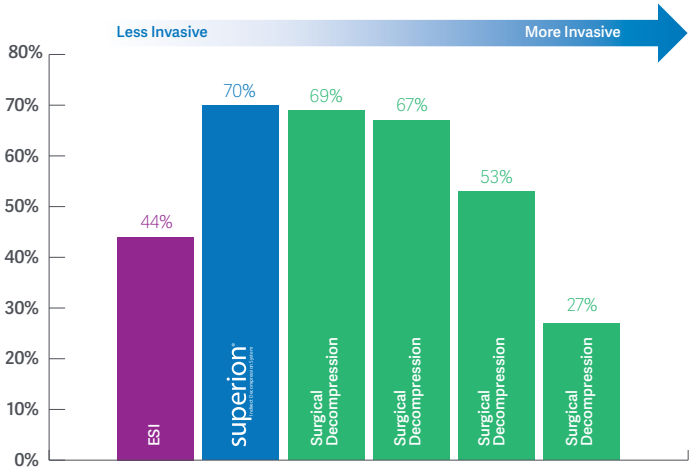
Superion sets the new gold standard.

Superion was developed to provide patients with spinal stenosis a safe and effective alternative when conservative treatment has failed and laminectomy is too aggressive. It's an entirely new design with a minimally invasive approach that fills a gap in the continuum of care. When it comes to effectiveness, Superion holds its own against the "gold standard" laminectomy.

Superion compares favorably to laminectomy

Leg pain severity improvement at 2 years with LSS Therapies



Author (Journal)	n
Manchikanti (Pain Physician 2012)	50
Patel (Spine 2015)	131
Davis (Spine 2013)	86
Stromqvist (Spine 2013)	50
Malmivvaara (Spine 2007)	42
Haro (Spine 2008)	50

Superion vs. Laminectomy

Superion Clinical Outcomes Compare Favorably With Outcomes From Laminectomy

ZCQ Success + Reoperations

Outcome Measure	% Improvment from Baseline (24 mo.)		
	Superion		Laminectomy
Leg Pain	70%	vs.	62%
ODI	51%	vs.	47%
ZCQ Symptom Severity	37%	vs.	29%
ZCQ Physical Function	36%	vs.	32%

Note: Lauryssen C, et al.: Stand-alone interspinous spacer versus decompressive laminectomy for treatment of lumbar spinal stenosis. Expert Rev Med Devices 2015; 12(6):763-769.

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Committed to success.

Vertiflex is deeply committed to successful outcomes.

Thorough patient profiling helps ensure successful outcomes of Superion patients. It has been optimized for patients with chronic pain from moderate spinal stenosis of the L1-L5 Spinal Levels, in conjunction with neurogenic intermittent claudication with or without grade 1 spondylolisthesis. The ideal candidate will have thickened ligmentum flavum with central canal narrowing confirmed by X-ray, MRI and/or CT.

Partnering with Physicians.

Vertiflex offers physicians cadaver-based training in centers across the country for hands-on education.

To register for an upcoming course, please contact your local sales representative or email: info@vertiflexspine.com for more information.

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Reimagining Lumbar Stenosis Treatments.

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VF-LD-0086 Rev B