ZAVATION®

Lateral Lumbar Interbody Fusion

LLIF Patient Information

A Minimally Invasive Technique

Lateral lumbar interbody fusions are performed through a smaller incision, which means there is **less disruption to the muscles and surrounding tissue**.

Conditions

Lateral Lumbar Interbody Fusion is typically performed to treat the following conditions:

Degenerative Disc Disease (DDD)

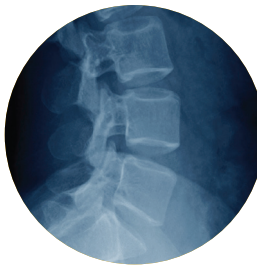
DDD is a condition in which the discs of the spine break down which may lead to compressed spinal nerves, which in turn causes pain, numbness, or weakness. Typically, DDD is found in regions of the spine with the most motion or load, such as the lower back. It can be attributed to age, general wear and tear, or an acute injury such as a fall.

Scoliosis

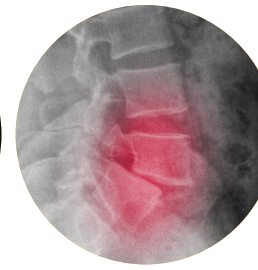
Scoliosis is a lateral (sideways) curvature of the spine in one or more places. Symptoms can include pain, bulging or deformity of the back. The pain may be related to the curve itself or the compression of spinal nerves.

Spondylolisthesis

Spondylolisthesis is a condition where one of the vertebra slips forward out of place relative to another. This can be compounded by DDD. Symptoms typically include pain in the lower back, thigh, or leg, muscle spasms, and weakness. There are four grades used to describe the severity of Spondylolisthesis. Higher grades are more likely to experience worsened symptoms.



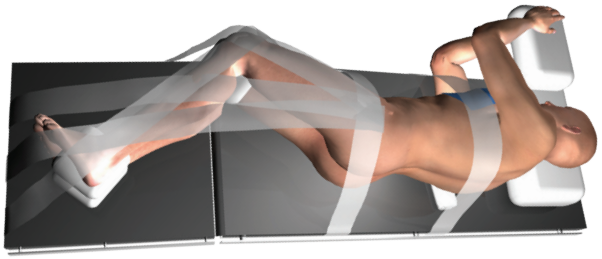
Healthy Segment



Spondylolisthesis

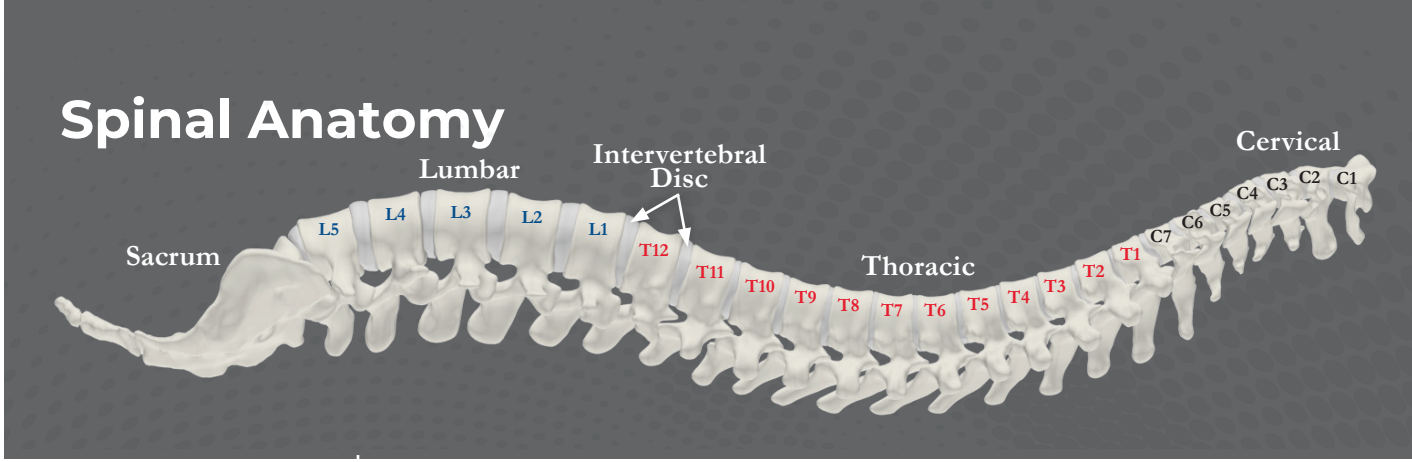
What is a LLIF Procedure?

In a Lateral Lumbar Interbody Fusion, the patient lies on their side during the procedure while the lumbar spine is accessed through a small incision.
The diseased or damaged disc is removed and an implant is inserted to restore height and relieve pain. The spine is then stabilized, typically using either a plate with screws over the implant, or a rod and screw system implanted separately from the back.



Lateral Approach

Lateral Lumbar Interbody Fusions are performed through a smaller incision, which means there is less disruption to the muscles and surrounding tissue.
This minimally invasive approach reduces blood loss and typically shortens the length of a hospital stay. With a LLIF, the surgeon can use a larger implant than with other lumbar spine approaches, allowing the maximum amount of coverage.



Potential Risks

There are possible risks involved with any surgical procedure. Reasonable expectations and compliance with the surgeon's pre- and post-operative instructions are vital.

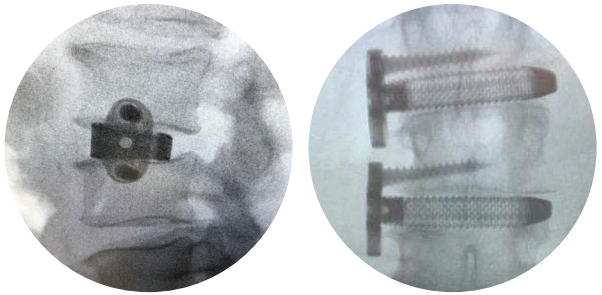
All aspects of any potential surgery should be thoroughly discussed with your healthcare provider.

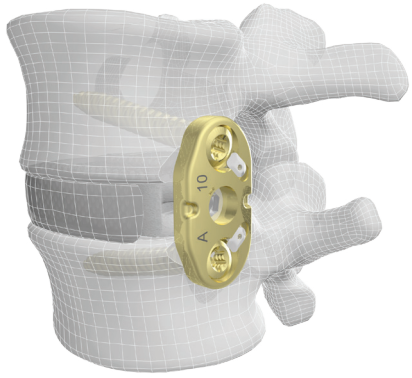
Potential risks associated with lateral lumbar procedures include:

- General adverse effects related to surgical procedures, such as bleeding, infection, blood clots, or allergic reactions
- Failure of adequate fusion to occur
- Damage to abdominal organs

Treatment

Depending on your condition, a lateral procedure may be an option when non-surgical techniques do not relieve symptoms. The primary goals are to decompress neural elements, restore disc height, and stabilize the spine.





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Recovery

The minimally invasive LLIF procedure is typically performed as outpatient surgery and you should be released within a day. Medical staff will monitor your condition and determine your best postoperative care.

After surgery, you may feel relief from your symptoms within two to four weeks, but each patient's recovery journey will vary.

This brochure is intended as an educational resource only. No claims are being made as to predictive efficacy of this device or procedure. The information presented should, in no way, be used as a substitute for informed discussions between the patient and physician regarding possible and eventual course of treatment. Medical treatment is individually specific to each patient's symptoms. The information contained herein may not apply to you, your condition, treatment, or expected outcome. Surgical techniques and practices vary. Complications may occur. It is important to talk with your physician about all indications, contraindications, warnings, precautions, clinical results and other important medical considerations as pertain to this procedure. This procedure is intended for intervertebral body fusion for conditions from degenerative disc disease (DDD). It is contraindicated for a number of conditions. It is important to discuss these and all other aspects of any potential surgery with your physician. For more information, you may contact Zavation.

For product information, including indications for use, contraindications, warnings, precautions, potential adverse effects and patient counseling information, visit www.zavation.com/ifu.

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