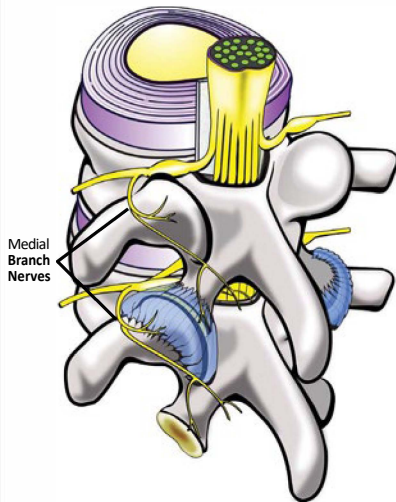


HIGH INTENSITY FOCUSED ULTRASOUND (HIFU)

For Chronic Low Back Pain

Normal Anatomy of the Lumbar Spine



The HIFU Neurolyser XR is an advanced, non-invasive treatment designed to address chronic pain conditions safely and effectively. This innovative procedure uses High-Intensity Focused Ultrasound (HIFU) to precisely target nerves, providing long-lasting pain relief without the need for surgery or radiation. The method was introduced in Canada by our physicians who conducted pivotal studies leading to approval of the treatment by Health Canada.

What are lumbar facet joints?

Facet joints connect the vertebrae, the bones of the spine. They help guide your spine when you move. The low back area of the spine is called the lumbar region. It contains five vertebrae.

Facet joints are found on both sides of the spine. Each is about the size of a thumbnail.

Medial branch nerves are found near facet joints. They communicate pain from the facet joint. There are also nerve twigs in bone adjacent to cartilage that transmit pain signals.

Degenerated Lumbar Facet Cartilage



What is lumbar facet joint pain?

You may feel pain if a lumbar facet joint is arthritic or otherwise injured. Sometimes it feels like muscle tension. Other times it can be aching or sharp. The cartilage inside the joint may be injured. Other times only connecting ligaments surrounding the joint are injured. Facet pain also depends on which joint is affected. Lumbar facet joint pain can occur in an area from your low back down to your buttocks, groin and hips.

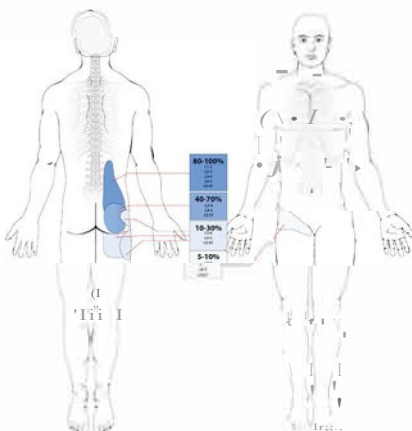
The diagram shows areas of pain usually associated with lumbar facet injuries.

How do I know if I have lumbar facet pain?

If you have pain in one or more of these areas, and it has lasted longer than three months, you may have lumbar facet pain.

Common tests such as X-rays or MRIs may not always show if a facet joint is causing pain. The best way to diagnose facet pain is to block the pain signal in a medial branch nerve with a local anesthetic (freezing medicine).

Lumbar Facet Joint Pain Patterns

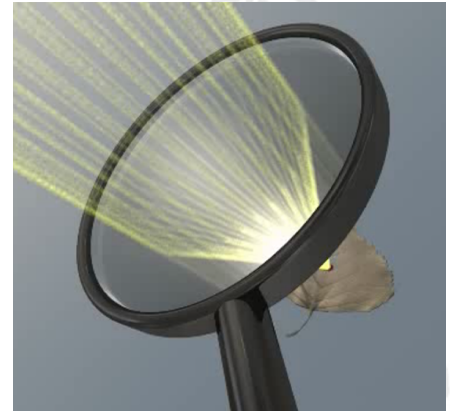


What is a lumbar facet HIFU?

HIFU, or High-Intensity Focused Ultrasound, is a cutting-edge technology that delivers focused ultrasound energy to specific locations.

This energy generates heat, disrupting nerve signals responsible for chronic pain. The procedure is performed under imaging guidance, ensuring precision and safety.

How HIFU procedure is done?



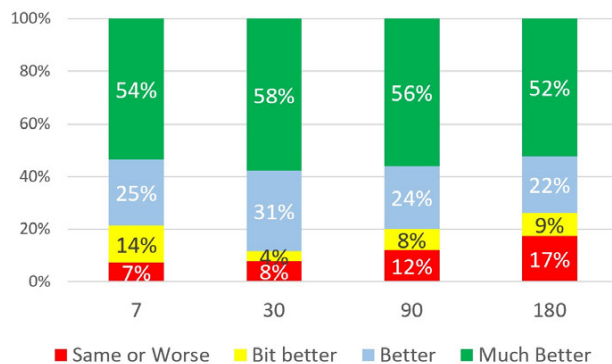
- Your physician will review your medical history and discuss your pain condition to determine if HIFU Neurolyser XR is right for you.
- X-ray and optical guidance will be used to identify the target and perform the treatment.
- The ultrasound beams are converged to the target like sunlight coming through a magnifying glass.
- The focused ultrasound waves are delivered to the targeted nerves through intact skin. The procedure is usually well tolerated but requires so-called consciousness sedation to ensure comfort and prevent involuntary movements. Most patients remain comfortable throughout.
- You can resume most activities the same day. Follow-up care may include monitoring your progress and making adjustments to your pain management plan if needed.

Benefits of HIFU Neurolyser XR

- Non-invasive: No needles
- Quick recovery: Minimal downtime, allowing you to return to daily activities quickly.
- Precise targeting: Reduces pain while preserving surrounding tissues.
- Safe and effective: Proven technology with minimal risks.
- Reduced radiation: A combination of X-ray and optic navigation reduces radiation exposure.

How do we know HIFU works?

- Our physicians led preclinical and clinical studies that showed superb safety of the method and demonstrated superior to RFA effectiveness.
- The studies are published in peer-reviewed literature (<https://pubmed.ncbi.nlm.nih.gov/?term=gofeld+AND+HIFU>). The graph below depicts patient satisfaction with the results.



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