

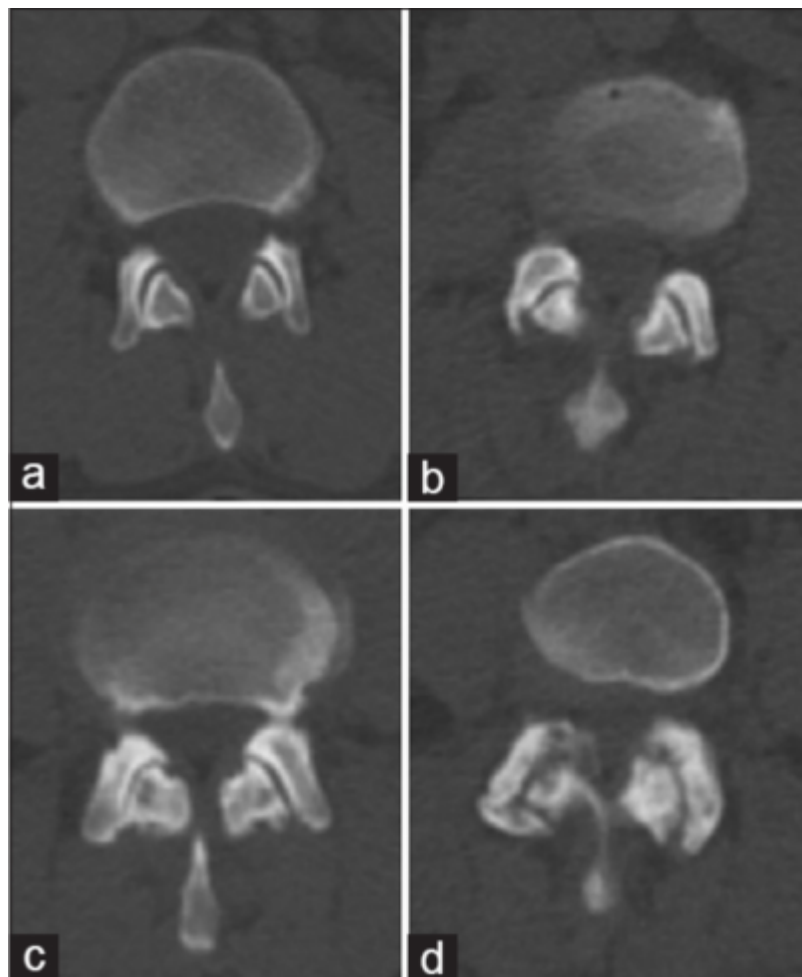
Lumbar facet joint degeneration

- [Lumbar Radiofrequency Ablation \(LRFA\)- Myths and Facts: A Narrative Review of the Literature](#)
- [The hidden asymmetry: facet joint tropism as a clue to spinal malalignment and muscle degeneration in adult spinal deformity](#)
- [Opioid Dose Reduction Vis-a-Vis Lumbar Medial Branch Intervention](#)
- [Correlation between Calcification of Facet Joint Capsule and Dynamic Instability in Lumbar Degenerative Spondylolisthesis](#)
- [The effectiveness of fluoroscopically guided lumbar facet steroid joint injections: A systematic review](#)
- [MRI reveals scoliosis as a silent driver of lumbar facet joint degeneration in aging Ecuadorian adults](#)
- [Focal fatty infiltration of the lumbar intervertebral disc: a case report and literature review](#)
- [The Future of Motion Preservation and Arthroplasty in the Degenerative Lumbar Spine](#)

Is a source of chronic low back pain, with an incidence of 15% to 45% among patients with low back pain.

[Facet joint degeneration](#), a real joint-segment-joint degeneration, is often a trigger of [back pain](#). In addition, [disc herniation](#), [recess](#), or neuroforaminal stenosis often affects the nerve root and can lead to leg pain

Age and BMI have a direct impact on facet joint degeneration. However, spinopelvic parameters influence the severity of facet joint degeneration rather than its occurrence. In addition to the effects of [lumbar lordosis](#) as a single entity, it is essential to consider separately the effects of proximal and distal lumbar lordosis at the facet joint degeneration level ¹⁾



Computed tomography Criteria for grading facet joint arthropathy (a) Normal facet joints (joint space 2-4 mm) (b) joint space narrowing (joint space <2 mm) and/or small osteophytes and/or mild hypertrophy of the articular processes joint space narrowing and/or moderate osteophytes and/ or moderate hypertrophy of the articular processes and/or mild subarticular bone erosions (d). Joint space narrowing and/or large osteophytes and/or severe hypertrophy of the articular processes and/or severe subarticular bone erosions and/or subchondral cysts ²⁾

Various therapeutic techniques in the treatment of facet-related pain have been described in the literature:

[Intraarticular lumbar facet joint steroid injections](#)

[Lumbar facet joint denervation](#)

Arthroplasty is a surgical treatment option that aims to relieve pain while maintaining or restoring motion.

The [FENIX™](#) facet resurfacing technique might be considered in the future as surgical treatment of well selected patients suffering from chronic low back pain due to facet joint osteoarthritis. A modification of the superior implant should provide an initial firm fixation preventing implant dislocation ³⁾.

Epidemiology

Prevalence

General Population:

LFJD is a significant contributor to chronic low back pain (LBP), implicated in approximately 15-45% of LBP cases. Prevalence increases with age due to wear-and-tear of the joints.

Age and Gender:

It is more common in individuals over the age of 60 years. Men and women are equally affected, although some studies suggest a slightly higher prevalence in women due to differences in spinal anatomy and hormonal factors.

Imaging-Based Studies:

Radiographic evidence of lumbar facet joint [osteoarthritis](#) (OA) is present in 40-85% of people aged over 65, even if asymptomatic. MRI and CT scans often show evidence of degeneration, particularly at L4-L5 and L5-S1, which are the most mobile segments of the lumbar spine.

Classification

A fundamental consensus has been established regarding the classification of degeneration of lumbar intervertebral facet joints through MRI and CT scans, particularly using the Weishaupt and Pathria classification ⁴⁾

Liu et al. propose a new grading system for [lumbar facet joint degeneration](#) based on [X-rays](#), which serves as a supplement to the Weishaupt and Pathria classifications. This grading system aims to provide clinicians with a more comprehensive understanding of lumbar facet joint degeneration, allowing for the use of a broader range of diagnostic tools to evaluate facet joint degeneration from multiple perspectives. They believe that this grading system can be valuable in assessing potential anatomical changes related to the [facet joint](#), thereby informing modifications to surgical techniques and procedural steps ⁵⁾.

Clinical features

see [Lumbar facet joint syndrome](#).

Diagnosis

[Lumbar facet joint syndrome diagnosis.](#)

Treatment

[Lumbar facet joint degeneration treatment.](#)

1)

Soydan Z, Bayramoglu E, Altas O. The Impact of Spinopelvic Alignment on the Facet Joint Degeneration. Global Spine J. 2023 Mar 9;21925682231162813. doi: 10.1177/21925682231162813. Epub ahead of print. PMID: 36893076.

2)

<http://www.ijnm.in/article.asp?issn=0972-3919;year=2015;volume=30;issue=3;spage=191;epage=198;aulast=Shur#ft28>

3)

Van de Kelft E. Lumbar Facet Resurfacing: First Experience With the FENIX™ Implant. J Spinal Disord Tech. 2013 Nov 5. [Epub ahead of print] PubMed PMID: 23563335.

4)

Weishaupt D, Zanetti M, Boos N, Hodler J. MR imaging and CT in osteoarthritis of the lumbar facet joints. Skeletal Radiol. 1999 Apr;28(4):215-9. doi: 10.1007/s002560050503. PMID: 10384992.

5)

Liu X, Zhu Z, He S, Sun M, Zhao T, Liu L, Shi H, Hou Y, Shi G. Enhancing Clinical Insights: New Radiographic Grading for Lumbar Facet Joint Degeneration, A Reliability Study. JOR Spine. 2025 Jan 7;8(1):e70035. doi: 10.1002/jsp2.70035. PMID: 39781088; PMCID: PMC11705393.

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