

Intervertebral disc degeneration diagnosis

A disc with imaging characteristics suggestive of gas in the disc space, usually a manifestation of [disc degeneration](#)

[Intervertebral disc degeneration](#) are present in a high proportion of asymptomatic individuals and increase with age ^{1) 2)}.

Although many imaged-based degenerative changes are due to the normal aging process, such imaging findings are often interpreted as the cause of the patient's back pain and initiate a cascade of medical and surgical interventions, which may not be helpful in relieving the symptoms ³⁾.

A diagnosis is based on a [medical history](#) and a [physical examination](#), as well as the [symptoms](#) and the circumstances where the pain started. [Magnetic resonance imaging](#) can show damage to [discs](#), but it alone cannot confirm [degenerative disc disease](#).

With disk degeneration, the adjacent vertebral endplates and subchondral bone will commonly show signal intensity changes on MRI (ie, [Modic changes](#)).

Pfirschmann grading system

[Pfirschmann grading system](#)

¹⁾

Brinjikji W, Luetmer PH, Comstock B, et al. Systematic literature review of imaging features of spinal degeneration in asymptomatic populations. AJNR Am J Neuroradiol. 2015;36(4):811–816.

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Boden SD, Davis DO, Dina TS, Patronas NJ, Wiesel SW. Abnormal magnetic-resonance scans of the lumbar spine in asymptomatic subjects: a prospective investigation. J Bone Joint Surg Am. 1990;72(3):403–408.

³⁾

Carragee E, Alamin T, Cheng I, Franklin T, van den Haak E, Hurwitz E. Are first-time episodes of serious LBP associated with new MRI findings? Spine J. 2006;6(6):624–635.

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