

Lumbar degenerative spondylolisthesis diagnosis

Plain lumbosacral x-rays: may disclose **spondylolisthesis**. AP diameter of canal is usually narrowed (congenitally or acquired) whereas the **interpedicular distance** (IPD) may be normal ¹⁾.

Plain lumbosacral x-rays Oblique films may demonstrate **pars defects**. Adding flexion/extension views can assess “dynamic” in stability.

Degenerative spondylolisthesis with **lumbar stenosis** is a well-studied pathology and diagnosis is most commonly determined by a combination of **magnetic resonance imaging** (MRI) and standing **plain lumbosacral x-rays**. However, routine upright imaging is not universally accepted as standard in all practices.

Routine standing lateral radiographs should be standard practice in order to identify degenerative spondylolisthesis, as nearly 1/3 of cases will be missed on supine MRI. This may have implications on whether or not an arthrodesis is performed on those patients requiring lumbar decompression. Flexion-extension radiographs demonstrated no added value compared to standing lateral xrays for the purposes of diagnosing degenerative spondylolisthesis ²⁾.

Lumbar degenerative spondylolisthesis magnetic resonance imaging

Lumbar degenerative spondylolisthesis magnetic resonance imaging.

¹⁾

Hawkes CH, Roberts GM. Neurogenic and Vascular Claudication . J Neurol Sci. 1978; 38:337-345

²⁾

Segebarth PB, Kurd MF, Haug PH, Davis R. Routine Upright Imaging for Evaluating Degenerative Lumbar Stenosis: Incidence of Degenerative Spondylolisthesis Missed on Supine MRI. J Spinal Disord Tech. 2014 Oct 28. [Epub ahead of print] PubMed PMID: 25353204.

From:

<https://neurosurgerywiki.com/wiki/> - **Neurosurgery Wiki**

Permanent link:

https://neurosurgerywiki.com/wiki/doku.php?id=lumbar_degenerative_spondylolisthesis_diagnosis

Last update: **2024/06/07 02:55**

