

Bilateral tubular minimally invasive approach for decompression, reduction and fixation in lumbosacral lythic spondylolisthesis

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This video demonstrates the minimally invasive surgical technique used in a 56-year-old woman suffering from L-5 spondylolysis and grade 2 L5–S1 spondylolisthesis. The first author used expandable tubular retractors bilaterally to perform neural decompression, mini-open TLIF, spondylolisthesis reduction and L5–S1 pedicle screw fixation. L-5 cement augmentation was performed through cannulated and fenestrated screws to enhance resistance to screw pull-out secondary to reduction maneuvers.

Sequential surgical steps related to microsurgery, spondylolisthesis reduction and instrumentation are shown and commented.

We submit that in cases of lythic spondylolisthesis a bilateral traversing and exiting nerve roots decompression is a safer option prior to performing the deformity reduction and fixation; the proposed minimally invasive technique may help in reducing surgical morbidity and improving postoperative recovery.

The video can be found here: <http://youtu.be/G4Qdg-A-Y3M>.

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KEY WORDS • **double tubular retractor** • **lythic spondylolisthesis** • **mini-TLIF** • **percutaneous screw fixation** • **spondylolysis** • **video**

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