

Accepted Manuscript

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PII: S1877-0568(18)30056-2
DOI: <https://doi.org/doi:10.1016/j.otsr.2018.02.004>
Reference: OTSR 1965

To appear in:

Received date: 14-1-2017
Accepted date: 12-2-2018

Please cite this article as: Farah K, Graillon T, Rakotozanany P, Pesenti S, Blondel B, Fuentes S, Circumferential minimally invasive approach for low-grade isthmic spondylolisthesis: a clinical and radiological study of 43 patients., *Orthopaedics and Traumatology: Surgery and Research* (2018), <https://doi.org/10.1016/j.otsr.2018.02.004>

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Original article

Circumferential minimally invasive approach for low-grade isthmic spondylolisthesis: a clinical and radiological study of 43 patients.

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Abstract:

Introduction: Circumferential fusion for lumbar low-grade isthmic spondylolisthesis (LGIS) provides the best spinal stability and highest fusion rates. The aim of this study is to investigate results of minimal invasive management of LGIS and correlations between Intervertebral Foramen Surface (IFS) and other parameters.

Methods: We retrospectively reviewed cases of 43 patients who underwent a minimally invasive circumferential fusion (Anterior lumbar interbody fusion followed by percutaneous posterior pedicle screw fixation) for LGIS between January 2010 and December 2014 in our institution. Inclusion criteria were one-level (L4-L5 or L5-S1) LGIS with low back and/or radicular pain. Pre- and postoperative radiographic evaluations were performed at 6, 12 and 24 months. Measurements (Percentage of anterior displacement, degree of slip angle, height of the intervertebral space and the IFS) were obtained using Surgimap®.

Results: 19 patients (44.2%) were males. Mean age was 43 years old (19- 72years).

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