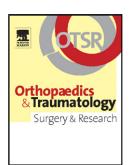
Accepted Manuscript

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



Author: K. Farah T. Graillon P. Rakotozanany S. Pesenti B. Blondel S. Fuentes

 PII:
 \$\$1877-0568(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

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

Original article

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

K. Farah^{a,b}, T. Graillon^{a,b}, P. Rakotozanany^{a,b}, S. Pesenti^{a,d}, B. Blondel^{a,c}, S. Fuentes^{a,b}

a Department of Spine Surgery, Timone Aix-Marseille University, Marseille, France.

b Department of Neurosurgery Timone Aix-Marseille University, Marseille, France. c Department of Orthopedic Surgery, Timone Aix-Marseille University, Marseille, France.

d Department of Pediatric Orthopedics, Timone Aix Marseille University, Marseille, France.

Corresponding author: Kaissar FARAH

Email: kaissar.farah@gmail.com

Phone: 0033626201747

Permanent Address: Department of adult neurosurgery, 264 Rue Saint-Pierre, 13385 Marseille, FRANCE

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).

Download English Version:

https://daneshyari.com/en/article/8952481

Download Persian Version:

https://daneshyari.com/article/8952481

Daneshyari.com