Accepted Manuscript

Is pelvic fixation the only option to provide additional stability to the sacral anchorage in long lumbar instrumentation? A comparative biomechanical study of new techniques



David Volkheimer, Heiko Reichel, Hans-Joachim Wilke, Friederike Lattig

PII:	S0268-0033(17)30047-5
DOI:	doi: 10.1016/j.clinbiomech.2017.02.001
Reference:	JCLB 4284
To appear in:	Clinical Biomechanics
Received date: Accepted date:	17 November 2016 6 February 2017

Please cite this article as: David Volkheimer, Heiko Reichel, Hans-Joachim Wilke, Friederike Lattig, Is pelvic fixation the only option to provide additional stability to the sacral anchorage in long lumbar instrumentation? A comparative biomechanical study of new techniques. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Jclb(2017), doi: 10.1016/j.clinbiomech.2017.02.001

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

Is pelvic fixation the only option to provide additional stability to the sacral anchorage

in long lumbar instrumentation?

A comparative biomechanical study of new techniques

David Volkheimer^a, Heiko Reichel^b, Hans-Joachim Wilke^a, Friederike Lattig^{b,c}

^a Institute of Orthopedic Research and Biomechanics, Trauma Research Center Ulm (ZTF),

Ulm University, Medical Center, Germany

^b Orthopedic University Hospital RKU, Ulm, Germany

^c Berit Paracelsus Clinic, Speicher, Switzerland

Corresponding author:

Prof. Dr. Hans-Joachim Wilke

Institute of Orthopedic Research and Biomechanics

Helmholtzstrasse 14

89081 Ulm, Germany

E-mail: hans-joachim.wilke@uni-ulm.de

Wordcount:

Abstract: 239 words

Download English Version:

https://daneshyari.com/en/article/5706901

Download Persian Version:

https://daneshyari.com/article/5706901

Daneshyari.com