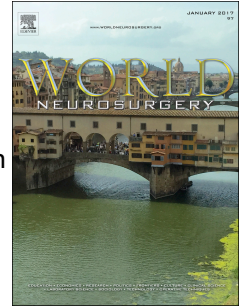


Accepted Manuscript

Uninstrumented Posterior Lumbar Interbody Fusion: Have Technological Advances in Stabilizing the Lumbar Spine Truly Improved Outcomes?

Laura M. Prolo, MD, PhD, Sally A. Oklund, PhD, Nadine Zawadzki, BSPH, Manisha Desai, PhD, Donald J. Prolo, MD



PII: S1878-8750(18)30702-2

DOI: [10.1016/j.wneu.2018.03.210](https://doi.org/10.1016/j.wneu.2018.03.210)

Reference: WNEU 7822

To appear in: *World Neurosurgery*

Received Date: 8 January 2018

Revised Date: 28 March 2018

Accepted Date: 29 March 2018

Please cite this article as: Prolo LM, Oklund SA, Zawadzki N, Desai M, Prolo DJ, Uninstrumented Posterior Lumbar Interbody Fusion: Have Technological Advances in Stabilizing the Lumbar Spine Truly Improved Outcomes?, *World Neurosurgery* (2018), doi: 10.1016/j.wneu.2018.03.210.

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.

Title: Uninstrumented Posterior Lumbar Interbody Fusion: Have Technological Advances in Stabilizing the Lumbar Spine Truly Improved Outcomes?

Short title: Uninstrumented Posterior Lumbar Interbody Fusion with Allografts

Laura M. Prolo, MD, PhD^a

Sally A. Oklund, PhD^b

Nadine Zawadzki, BSPH^c

Manisha Desai, PhD^c

*Donald J. Prolo, MD^{a,b}

^aStanford University School of Medicine, Department of Neurosurgery, 300 Pasteur Dr, Stanford, CA 94305, USA, Lmprolo@stanford.edu

^b203 DiSalvo Avenue, San Jose, CA 95128, USA, djprolo@stanford.edu, sally_oklund@hotmail.com,

^cStanford University School of Medicine, Quantitative Sciences Unit, 1070 Arastradero Road, Palo Alto, CA 94304, USA, nzawadzki@stanford.edu, manishad@stanford.edu

*Corresponding author is Donald J. Prolo, MD, Adjunct Professor of Neurosurgery, Stanford University School of Medicine; 203 DiSalvo Avenue, San Jose, CA 95128; djprolo@stanford.edu; (408) 354 8333.

Download English Version:

<https://daneshyari.com/en/article/8691464>

Download Persian Version:

<https://daneshyari.com/article/8691464>

[Daneshyari.com](https://daneshyari.com)