

# Accepted Manuscript

Title: Perioperative neurologic complications during spinal fusion surgery: incidence and trends

Author: Parthasarathy Thirumala, James Zhou, Piruthiviraj Natarajan, Jeffrey Balzer, Edward Dixon, David Okonkwo, D K Hamilton

PII: S1529-9430(17)30212-7  
DOI: <http://dx.doi.org/doi: 10.1016/j.spinee.2017.05.020>  
Reference: SPINEE 57331

To appear in: *The Spine Journal*

Received date: 30-11-2016  
Revised date: 16-3-2017  
Accepted date: 16-5-2017

Please cite this article as: Parthasarathy Thirumala, James Zhou, Piruthiviraj Natarajan, Jeffrey Balzer, Edward Dixon, David Okonkwo, D K Hamilton, Perioperative neurologic complications during spinal fusion surgery: incidence and trends, *The Spine Journal* (2017), <http://dx.doi.org/doi: 10.1016/j.spinee.2017.05.020>.

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.



1 **Perioperative Neurologic Complications During Spinal Fusion Surgery: Incidence and**  
2 **Trends**

3  
4 Parthasarathy Thirumala, M.D., James Zhou, B.S., Piruthiviraj Natarajan, M.D., Jeffrey Balzer  
5 Ph.D., Edward Dixon Ph.D, David Okonkwo M.D. Ph.D, D K Hamilton M.D.

6  
7 Department of Neurological Surgery, University of Pittsburgh Medical Center, Pittsburgh,  
8 Pennsylvania, United States of America

9  
10 **Funding Statement**

11 This research received no specific grant from any funding agency in the public, commercial or  
12 not-for-profit sectors.

13  
14 **Competing Interests Statement**

15 The authors have no personal or institutional interest with regards to the authorship and/or  
16 publication of this manuscript.

17  
18 **Contributorship Statement**

19 PT designed this manuscript. JZ and PN performed the literature search. JZ compiled the primary  
20 manuscript. PT critically revised the manuscript. All authors have approved the manuscript as it  
21 is written.

22  
23 **Data Sharing**

24 All data pertaining to this research article are included within the manuscript as written.

25  
26 **Corresponding Author**

27 Parthasarathy Thirumala, M.D.  
28 Associate Professor of Neurological Surgery and Neurology  
29 Co-Director, Center of Clinical Neurophysiology  
30 University of Pittsburgh Medical Center  
31 Department of Neurological Surgery  
32 200 Lothrop Street, Suite B-400  
33 Pittsburgh, PA 15213-2582  
34 P: 412-648-2570  
35 F: 412-647-0989  
36 E: thirumalapd@upmc.edu

37  
38 **ABSTRACT**

39 Background context:

Download English Version:

<https://daneshyari.com/en/article/8804700>

Download Persian Version:

<https://daneshyari.com/article/8804700>

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