

Accepted Manuscript

Title: Sagittal imbalance in patients with lumbar spinal stenosis and outcomes after simple decompression surgery

Author: E Kyung Shin, Chi Heon Kim, Chun Kee Chung, Yunhee Choi, Dahae Yim, Whei Jung, Sung Bae Park, Jung Hyeon Moon, Won Heo, Sung-Mi Kim

PII: S1529-9430(16)30885-3

DOI: <http://dx.doi.org/doi: 10.1016/j.spinee.2016.08.023>

Reference: SPINEE 57139

To appear in: *The Spine Journal*

Received date: 14-3-2016

Revised date: 21-6-2016

Accepted date: 16-8-2016

Please cite this article as: E Kyung Shin, Chi Heon Kim, Chun Kee Chung, Yunhee Choi, Dahae Yim, Whei Jung, Sung Bae Park, Jung Hyeon Moon, Won Heo, Sung-Mi Kim, Sagittal imbalance in patients with lumbar spinal stenosis and outcomes after simple decompression surgery, *The Spine Journal* (2016), <http://dx.doi.org/doi: 10.1016/j.spinee.2016.08.023>.

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 TITLE

2 Sagittal imbalance in patients with lumbar spinal stenosis and outcomes after simple decompression surgery

3

4 E Kyung Shin, BS¹, Chi Heon Kim, MD, PhD^{2,3,4}, Chun Kee Chung, MD, PhD^{2,3,4,5}, Yunhee Choi, PhD⁵, Dahae
5 Yim, MS⁵, Whei Jung, BS¹, Sung Bae Park, MD^{2,3,4,6}, Jung Hyeon Moon, MD^{2,3}, Won Heo, MD^{2,3}, Sung-Mi
6 Kim, RN²

7 ¹Department of Medicine, Seoul National University College of Medicine; ²Department of Neurosurgery, Seoul
8 National University College of Medicine; ³Department of Neurosurgery, Seoul National University Hospital,
9 Seoul, Korea; ⁴Clinical Research Institute, Seoul National University Hospital, Seoul, Korea; ⁵Medical Research
10 Collaborating Center, Seoul National University College of Medicine, Seoul, Korea; ⁵Department of Brain and
11 Cognitive Sciences, Seoul National University College of Natural Sciences, Seoul, Republic of Korea;
12 ⁶Department of Neurosurgery, Seoul National University Boramae Hospital, Seoul, Korea

13

14 Running head: sagittal imbalance in lumbar spinal stenosis

15

16 Corresponding Author

17 Chi Heon Kim, MD, PhD.

18 Department of Neurosurgery

19 Seoul National University College of Medicine

20 101 Daehak-Ro, Jongno-gu

21 Seoul, 110-744, South Korea

22 Tel: +82-2-2072-3398

23 Fax: +82-2-744-8459

24 E-mail: chiheon1@snu.ac.kr

25

26 Conflicts of Interest and Source of Funding

Download English Version:

<https://daneshyari.com/en/article/5713011>

Download Persian Version:

<https://daneshyari.com/article/5713011>

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