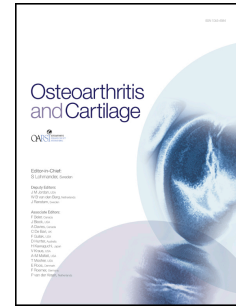


# Accepted Manuscript

Sagittal alignment and mobility of the thoracolumbar spine are associated with radiographic progression of secondary hip osteoarthritis

Hiroshige Tateuchi, PT, PhD, Haruhiko Akiyama, MD, PhD, Koji Goto, MD, PhD, Kazutaka So, MD, PhD, Yutaka Kuroda, MD, PhD, Noriaki Ichihashi, PT, PhD



PII: S1063-4584(17)31376-6

DOI: [10.1016/j.joca.2017.12.005](https://doi.org/10.1016/j.joca.2017.12.005)

Reference: YJOCA 4134

To appear in: *Osteoarthritis and Cartilage*

Received Date: 6 June 2017

Revised Date: 4 December 2017

Accepted Date: 8 December 2017

Please cite this article as: Tateuchi H, Akiyama H, Goto K, So K, Kuroda Y, Ichihashi N, Sagittal alignment and mobility of the thoracolumbar spine are associated with radiographic progression of secondary hip osteoarthritis, *Osteoarthritis and Cartilage* (2018), doi: 10.1016/j.joca.2017.12.005.

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: Sagittal alignment and mobility of the thoracolumbar spine are associated with**  
2 **radiographic progression of secondary hip osteoarthritis**

3  
4 **Authors:** Hiroshige Tateuchi, PT, PhD<sup>1\*</sup>, Haruhiko Akiyama, MD, PhD<sup>2</sup>, Koji Goto, MD, PhD<sup>3</sup>,  
5 Kazutaka So, MD, PhD<sup>4</sup>, Yutaka Kuroda, MD, PhD<sup>3</sup>, Noriaki Ichihashi, PT, PhD<sup>1</sup>

6  
7 <sup>1</sup> Human Health Sciences, Graduate School of Medicine, Kyoto University, Kyoto, Japan

8 <sup>2</sup> Department of Orthopaedic Surgery, School of Medicine, Gifu University, Gifu, Japan

9 <sup>3</sup> Department of Orthopaedics Surgery, Graduate School of Medicine, Kyoto University, Kyoto,  
10 Japan

11 <sup>4</sup> Department of Orthopaedic Surgery, Osaka Red Cross Hospital, Osaka, Japan

12  
13 **Grant:** JSPS KAKENHI Grant-in-Aid for Scientific Research (C) Grant No. 24500578.

14  
15 **Competing interests:** The work reported in this manuscript has not received financial support from  
16 any commercial source. There are no conflicts of interest to declare with regard to this study.

17  
18 **\* Corresponding author:**

19 Hiroshige Tateuchi, Ph.D.

20 Kyoto University

21 53 Kawara-cho, Shogoin, Sakyo-ku, Kyoto 606-8507, Japan

22 Tel: +81-75-751-3964

23 Fax: +81-75-751-3909

24 E-mail: [tateuchi.hiroshige.8x@kyoto-u.ac.jp](mailto:tateuchi.hiroshige.8x@kyoto-u.ac.jp)

25  
26 **Running title:** Spinal impairment and hip OA progression

Download English Version:

<https://daneshyari.com/en/article/8741679>

Download Persian Version:

<https://daneshyari.com/article/8741679>

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