

## 研究業績 英文表記

和文	
表題	3D 骨盤モデルを用いた産前産後の骨盤アライメントの変化:縦断的観察症例報告
著者名	坂本飛鳥 <sup>1)</sup> 渡邊五郎 <sup>2)</sup> 森戸剛 <sup>3)</sup> 片山貴美夫 <sup>4)</sup> 熊谷元 <sup>4)</sup> 蒲田和義 <sup>5)</sup>
所属	1)西九州大学 2)河原医療大学校 3)早稲田大学大学院 4)広島みなとクリニック 5)株式会社 GLAB
英文	
Title	Changes in pelvic alignment in a woman before and after childbirth, using three-dimensional pelvic models based on magnetic resonance imaging: A longitudinal observation case report
Author	Asuka Sakamoto, PhD <sup>a</sup> , Goro Watanabe, PhD <sup>b</sup> , Tsuyoshi Morito, Ms <sup>c</sup> , Kimio Katayama, RT <sup>d</sup> , Hajime Kumagai, MD <sup>d</sup> , Kazuyoshi Gamada, PhD <sup>e</sup>
Affiliation	a)Faculty of rehabilitation sciences, Nishikyusyu university, 4490-9 Osaki, Kanzaki-machi, Kanzaki-shi, Saga-ken, 842-8585, Japan b)Department of physical therapy, Kawahara medical science institute, 3-6 Hanazono-cho, Matsuyama-shi,Ehime-ken, 790-0005, Japan c)School of sport sciences, Waseda university, 579-15 Sangashima, Tokorozawa-shi, Saitama-ken, 359-1192, Japan d)Department of radiology, Hiroshima Minato Clinic, 12-46 Ujinanishi, Minami-ku, Hiroshima-shi, Hiroshima-ken, 734-0014, Japan e) Research division, GLAB Co., Ltd., 889-1 Munchikayanagikoku, Kurose-cho, Higashihiroshima-shi, Hiroshima-ken, 739-2504, Japan
Abstract	3-dimensional pelvic models based on magnetic resonance images (MRI) can be used to investigate accuracy and specifics of changing pelvic alignment during pregnancy and after childbirth. Few studies have investigated changes of pelvic alignment during pregnancy and after childbirth using three-dimensional pelvic models. This case report documents the changes of pelvic alignment during late pregnancy and after childbirth using MRI-based three-dimensional (3D) pelvic models. This was a longitudinal observation case report. A woman was imaged with MRI at 28 and 39 gestational weeks, as well as 4 and 72 weeks after childbirth. Greater internal, anterior, and downward rotation of both innominates at week 39 was observed from that at gestation week 28. Decreased internal, anterior, and downward rotation of both innominates at week 4 after child birth was observed compared with that at gestation week 39. We report the first case in Japan of changes of pelvic alignment measured using an MRI-based 3D pelvic alignment model during pregnancy and after child birth. This case suggests that the small changes of pubic area and greater separation of anterior portions of sacroiliac joints. Internal, anterior, and downward rotation of both innominates was observed in a Japanese primipara woman having no pelvic pain.

keyword	Three-Dimensional Models, Pelvic Alignment, Pregnancy, Postpartum Period, A Case Report
---------	-----------------------------------------------------------------------------------------

※本データの英文表記は実際の論文上の表記とは異なります。