Author's response to reviews

Title: Treatment of Periprosthetic Femoral Fractures after Femoral Revision Using a Long Stem

Authors:

Youngwoo Kim (woochan76@hotmail.co.jp)
Chiaki Tanaka (c.tanaka@kyoto.zaq.jp)
Hiroshi Tada (tadah4416@gmail.com)
Hiroshi Kanoe (kanoehiroshi@gmail.com)
Takaaki Shirai (takaakis@kuhp.kyoto-u.ac.jp)

Version: 3 Date: 26 November 2014

Author's response to reviews: see over
On behalf of all the authors, I would like to ask you to consider our manuscript entitled “Treatment of Periprosthetic Femoral Fractures after Femoral Revision Using a Long Stem” for publication in BMC MUSCULOSKELETAL DISORDERS as an original research article. This retrospective study investigated outcome of treatment for periprosthetic femoral fractures after femoral revision using a long stem, focusing on clinical and radiographic evaluations. All study participants provided informed consent, and the study design was approved by an ethics review board.

There have been a number of studies on treatment of periprosthetic femoral fracture after primary THA and revision THA using a standard stem. However, we have been focusing on treatment of periprosthetic femoral fracture after femoral revision using a long stem. In this study, we evaluated the outcome of treatment for 11 periprosthetic femoral fractures after femoral revision using a long stem and found several important aspects that might influence the outcome of treatment for these fractures. All cases were classified as Vancouver type B1, and most patients had poor bone quality because of osteoporosis and previous surgeries. All fractures except one achieved primary union. This failed case had a bone defect at the fracture site, and revision surgery using a cementless long stem and allografts was successful. These findings suggest that a type B1 fracture after revision using a long stem associated with very poor bone quality or bone loss might be considered as a type B3 fracture, and femoral revision might be the treatment of choice. We feel that findings from this study will be of special interest to the readers of BMC MUSCULOSKELETAL DISORDERS.

We declare that this manuscript is original, has not been published before and is not currently being considered for publication elsewhere.

We confirm that the manuscript has been read and approved by all named authors and that there are no other persons who satisfied the criteria for authorship but are not listed. We further confirm that the order of authors listed in the manuscript has been approved by all of us.

We further confirm that any aspect of the work covered in this manuscript that has involved human patients has been conducted with the ethical approval of Institutional Review Board (IRB).

Sincerely,

Youngwoo Kim, M.D., Ph.D. (Corresponding author)
Department of Orthopaedic Surgery
Kyoto City Hospital
1-2, Higashitakada-cho, Mibu, Nakagyo-ku
Kyoto, 604-8845, Japan
Chiaki Tanaka, MD, PhD
Department of Orthopaedic Surgery
Kyoto City Hospital
1-2, Higashitakada-cho, Mibu, Nakagyo-ku
Kyoto, 604-8845, Japan
Tel: +81-75-311-5311
Fax: +81-75-321-6025

Hiroshi Tada, MD,
Department of Orthopaedic Surgery
Kyoto City Hospital
1-2, Higashitakada-cho, Mibu, Nakagyo-ku
Kyoto, 604-8845, Japan
Tel: +81-75-311-5311
Fax: +81-75-321-6025

Hiroshi Kanoe, MD, PhD
Department of Orthopaedic Surgery
Kyoto City Hospital
1-2, Higashitakada-cho, Mibu, Nakagyo-ku
Kyoto, 604-8845, Japan
Tel: +81-75-311-5311
Fax: +81-75-321-6025

Takaaki Shirai, MD, PhD
Department of Orthopaedic Surgery
Kyoto City Hospital
1-2, Higashitakada-cho, Mibu, Nakagyo-ku
Kyoto, 604-8845, Japan
Tel: +81-75-311-5311
Fax: +81-75-321-6025