Reviewer’s report

Title: Impaction grafting in the femur in cementless modular revision total hip arthroplasty: A descriptive outcome analysis of 243 Cases with the MRP-TITAN Revision Implant

Version: 1 Date: 16 November 2012

Reviewer: Zhen An Zhu

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Minor Essential Revisions

This paper is well organized, clear and easy to read. And they present the largest analysis of the impaction grafting technique in combination with cementless distal diaphyseal stem fixation published so far. I have only one question for this paper. How did the authors describe the change of stress shielding in the proximal femur? You mentioned ‘in the form of radiologically verifiable bone resorption’ as stress shielding in the second paragraph of your discussion. But it’s somewhat confused. You should describe it more specifically in the “Radiographic Evaluation”. I think you implant the graft in this area, which will definitely increase the bone mineral density in this area. Also we can not see this change you mentioned in your example (figure 3). The A and B in fig 3 have evident shadow of soft tissue which affect the bone mineral density in this area. So we can not evaluate the bone resorption in this area. Please provide the exact example for this paper. The best way is that your example should include one case representing the study group and another case representing control group which can show the change of proximal stress shielding in your paper. So we can see “There was a significant reduction in proximal stress Shielding” in your conclusion.

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Acceptable

Declaration of competing interests:

I declare that I have no competing interests