Response to Reviewers

Reviewer #1:

Specific Comments for the Author:

In this mini-review, the authors reviewed and described the surgical treatment of atypical femoral fractures and the surveillance of the contralateral femur. This mini-review summarized the current state of knowledge in the surgical treatment of complete and incomplete atypical femoral fractures and provided some theoretical references for the development of surgical treatment plans for complete and incomplete atypical femoral fractures. The specific review comments:

(1) In the introduction of the review, the biomechanical mechanisms of occurrence of atypical femoral fractures are less described, please add this section.

<u>Response</u>: Thank you for your insightful comment and recommendation. We have mentioned the biomechanical mechanisms of AFF. Since our topic, as indicated in the title, is mainly about surgical treatment, this point has been briefly mentioned. We didn't describe it in great detail, but we added the contents. Please see page 4, INTRODUCTION section, Line 66-74 in the revised manuscript.

(2) The advantages of the intramedullary nailing technique are highlighted in the section on surgical treatment of complete fractures, but how does the intramedullary nailing technique affect the original biomechanics of the femur? Please explain the biomechanics.

<u>Response</u>: Thank you for kind suggestion. Biomechanical aspect should be considered for the surgical treatment of AFF. The advantages of IMN have already been mentioned in terms of mechanical, biological, and practical aspects in SURGICAL TREATMENT OF COMPLETE FRACTURES section. As you suggested, we have added more about this point. Please see page 5-6, Line 101-124 in the revised manuscript.

(3) In "SURVEILLANCE OF CONTRALATERAL FEMUR", please add a description of the pathogenesis of subsequent contralateral fractures in patients with unilateral AFF.

<u>Response</u>: Thank you for kind suggestion. we have added more about this point. Please see page 11, Line 261, Line 270-271 in the revised manuscript.

There are additional citation (ref. no. 3), and duplicate citations (original manuscript ref. 22, 40: **Egol KA**, Park JH, Prensky C, Rosenberg ZS, Peck V, Tejwani NC. Surgical Treatment Improves Clinical and Functional Outcomes for Patients Who Sustain Incomplete Bisphosphonate-Related Femur Fractures. *J Orthop Trauma* 2013; 27: 331-335 [PMID: 22986315 DOI: 10.1097/BOT.0b013e31827240ae] Therefore, the reference numbers in the manuscript have been revised overall.

Also, we have a grant, so we have described it in the "Supportive foundation(Line 23-26)" and "ACKNOWLEDGEMENT" section, as follows.

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