Reviewer’s report

Title: Comparison between minimally invasive plate osteosynthesis and open reduction–internal fixation for proximal humeral fractures: a meta-analysis based on 1050 individuals

Version: 1 Date: 03 Oct 2019

Reviewer: Zhenzhong Zhu

Reviewer's report:

This study analyzed clinical outcomes of minimally invasive and open reduction internal fixation for proximal humeral fractures. It is well designed and carried out.

1. MIPO minimizes the damage to soft tissue, however, it is more technical demanding. Author for the first time mentioned the functional outcomes of these two methods by Neer classification, but did not addressed clearly in the study selection or data extraction part. What is the inclusion criteria of classification?

2. Base on classification, it is important to compare the fracture reduction intra-operatively by these two methods.

3. MIPO group showed the higher rate of axillary nerve injury. Did these studies include the same surgical approach? It would be more meaningful to interpret why it happens and how to avoid the injury rather simply attribute to surgical experiences.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Yes

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Yes
Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I recommend additional statistical review

**Quality of written English**
Please indicate the quality of language in the manuscript:

Acceptable

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