**Reviewer's report**

**Title:** Clinical effect analysis and radiographic outcomes of Isobar TTL system for two-segmental lumbar degenerative disease: a retrospective study

**Version:** 0 **Date:** 13 Nov 2019

**Reviewer:** Jincai Yang

**Reviewer's report:**

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1. Fusion surgery is the gold standard for the lumbar degenerative diseases. Minimally invasive surgery become popular. So, what's the advantages of isobar TTL system compared with these two kinds of surgeries?

2. As the authors described the isobar TTL was introduced in 1993, is there any improvement in the past 20 years?

3. Is there any different indications between fusion surgery and isobar TTL?

4. Please provide more information on the technique of isobar TTL, is there any difference on it? Is there any special complication on isobar TTL?

5. Please compare your results with the outcomes in previous studies, is there any difference?

6. A perspective study may be needed to perform to certify the clinical effects of isobar TTL system.

7. What's the disadvantages of the isobar TTL?

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

No

**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.

No

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 am able to assess the statistics

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

Not suitable for publication unless extensively edited

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