Reviewer’s report

Title: Three-Dimensional Finite Element Analysis of Silk Protein Rod Implantation after Core Decompression for Osteonecrosis of the Femoral Head

Version: 0 Date: 18 Jun 2019

Reviewer: Dewei Zhao

Reviewer's report:

By reading the paper, I know that you have done a lot of work on silk protein rod.

There are several questions that need your attention.

1. "The three-point bending test was conducted using the Zwick 2500N machine (Figure 1)." Why is there no relevant result in this paper?
2. "The elastic modulus of the silk protein material sample 1, sample 2 and sample 3 were 1.15 GPa, 0.83 GPa and 0.50 GPa respectively. " Why are the results so different?
3. "We compared the effectiveness of silk protein rod implantation on different areas of femoral head osteonecrosis, assuming three different cone angles of 60°, 90° and 120°. " Please explain how you define these angles.
4. "Results from all 12 models were analyzed using single-factor ANOVA. " Please explain in detail how the 12 models are divided?

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 am able to assess the statistics

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

Declaration of competing interests  
Please complete a declaration of competing interests, considering the following questions:

1. Have you in the past five years received reimbursements, fees, funding, or salary from an organisation that may in any way gain or lose financially from the publication of this manuscript, either now or in the future?

2. Do you hold any stocks or shares in an organisation that may in any way gain or lose financially from the publication of this manuscript, either now or in the future?

3. Do you hold or are you currently applying for any patents relating to the content of the manuscript?

4. Have you received reimbursements, fees, funding, or salary from an organization that holds or has applied for patents relating to the content of the manuscript?

5. Do you have any other financial competing interests?

6. Do you have any non-financial competing interests in relation to this paper?

If you can answer no to all of the above, write 'I declare that I have no competing interests' below. If your reply is yes to any, please give details below.

I declare that I have no competing interests.

I agree to the open peer review policy of the journal. I understand that my name will be included on my report to the authors and, if the manuscript is accepted for publication, my named report including any attachments I upload will be posted on the website along with the authors' responses. I agree for my report to be made available under an Open Access Creative Commons CC-BY license (http://creativecommons.org/licenses/by/4.0/). I understand that any comments which I do not wish to be included in my named report can be included as confidential comments to the editors, which will not be published.
I agree to the open peer review policy of the journal

Do you want to get recognition for reviewing this manuscript? Add a record of this review to Publons to track and showcase your reviewing expertise across the world’s journals. Signing up is quick, easy and free!

Yes