

Dear editor,

Thank you for your letter and for the comments concerning our manuscript entitled “Approaches to promoting bone marrow mesenchymal stem cell osteogenesis on orthopedic implant surface”. Those comments and suggestions are all valuable and very helpful for improving the manuscript. Our point- by- point responses to the reviewers' comments are as follows.

Best regard!

Bing Yue, MD, PhD

May 9, 2020

**Reviewer #1: Reviewer’s code: 00646357**

Add the unique of this study compared to other studies discuss the same issue. -Add more on the basic of this disease in the introduction -Discus role of imaging using these ref -Razek AAKA, Ashmalla GA. Assessment of paraspinal neurogenic tumors with diffusion-weighted MR imaging. Eur Spine J 2018; 27:841-846. -Surov A, Nagata S, Razek AA, Tirumani SH, Wienke A, Kahn T. Comparison of ADC values in different malignancies of the skeletal musculature: a multicentric analysis. Skeletal Radiol 2015; 44:995-1000. -English language correction through the manuscript -Discus merits and limitations of technique appiled -Update of references as most of references are old.

1. Add the unique of this study compared to other studies discuss the same issue.

**Responses:** The unique of this review study has been discussed in the chapter Introduction (Page 3, lines 14-22 and Page 4, line 1).

2. Add more on the basic of this disease in the introduction

**Responses:** More basic knowledge about disease has been added in the chapter Introduction (Page 2, line3 11-16).

3. Discus role of imaging using these ref -Razek AAKA, Ashmalla GA. Assessment of paraspinal neurogenic tumors with diffusion-weighted MR imaging. Eur Spine J 2018; 27:841-846. -Surov A, Nagata S, Razek AA, Tirumani SH, Wienke A, Kahn T. Comparison of ADC values in different malignancies of the skeletal musculature: a multicentric analysis. Skeletal Radiol 2015; 44:995-1000.

**Responses:** We have discussed the role of imaging with the recommended references in the charper Perspective of osteogenesis on titanium surface.

4. English language correction through the manuscript.

**Responses:** The entire manuscript has been carefully examined to correct punctuation and grammar problems.

5. Discus merits and limitations of technique applied.

**Responses:** The merits and limitations of every technique have been introduced in detail in its own section.

6. Update of references as most of references are old.

**Responses:** By reviewing the entire manuscript, we have updated references of this article after careful inspection and consideration.

**Reviewer #2: Reviewer's code: 03712811**

This is an interesting, stimulating and worth reading review. This work brings

interesting and inspiring studies that may be deployed from the side of advanced natural/synthetic Chemistry, and nanofabrication, into the world of Translational Medicine and Regenerative Orthopedic Surgery. The overall work is well-designed and presented.

**Responses:** Thank you for your review.