



University of São Paulo, Bauru School of Dentistry, Department of Biological Sciences

To: Editors-in-Chiefs Dr. Massimiliano Leigheb and Xiao-Jian Ye

World Journal of Orthopedics

Attached to this, we have the list of questions asked by the reviewers (in bold) and the answers to these questions. A new version of the revised article is also attached to the submission system according to the standards required by the **World Journal of Orthopedics**. All suggestions were accepted and the changes included in the article. We believe that these changes have significantly improved our manuscript.

Sincerely,

The authors

Rogério L. Buchaim, Department of Biological Sciences (Anatomy), Bauru School of Dentistry, University of São Paulo (USP), Bauru, SP, Brazil.

<https://orcid.org/0000-0002-5881-2218>

Reviewer #1

Scientific Quality: Grade B (Very good)

Language Quality: Grade B (Minor language polishing)

Conclusion: Major revision

Specific Comments to Authors:

Dear Authors, Thank you for your submitting the manuscript. This is an excellent, detailed and well-written review citing the latest literature on 45S5 bioactive glass for bone regeneration. However, I think that a review that focuses on substances and materials would be of less interest to orthopedic clinicians. Another drawback to this paper is that it is not directly linked to human orthopedic disease. I think this review is best submitted to a journal that focuses specifically on materials in

dentistry. Table 1. is difficult to read due to the repetition of long sentences. The advantage of a table is that the main points can be grasped with a quick glance. Please improve it from that point of view.

Reply to the Reviewer 1

Thank you for your comments. New paragraphs have been added (highlighted in yellow in the text of the manuscript) which emphasize the clinical importance, especially for orthopedists. The Table 1 has been reduced as suggested, while maintaining its meaning and components.

EDITORIAL OFFICE'S COMMENTS

Authors must revise the manuscript according to the Editorial Office's comments and suggestions, which are listed below:

(1) Science editor:

1 Conflict of interest statement: Academic Editor has no conflict of interest.

2 Manuscript's theme: The topic is within the scope of the journal.

3 Scientific quality: The author submitted an editorial of update on the use of 45S5 bioactive glass in the treatment of bone defects in regenerative medicine. The manuscript is overall qualified.

(1) Advantages and disadvantages: The reviewer have given positive peer-review reports for the manuscript. Classification: Grade B; Language Quality: Grade B.

(2) Main manuscript content: The author clearly stated the purpose of the study and the research structure is complete. However, the manuscript is still required a further revision according to the detailed comments listed below.

(3) Table(s) and figure(s): There are 1 Figure and 1 Table should be improved. Detailed suggestions for each are listed in the specific comments section.

(4) References: A total of 36 references are cited, including 6 published in the last 3 years. The reviewer didn't request the authors to cite improper references published by him/herself.

4 Language evaluation: The English-language grammatical presentation needs to be improved to a certain extent. There are many errors in grammar and format, throughout the entire manuscript. Before final acceptance, the authors must provide the English Language Certificate issued by a professional English language editing company. Please visit the following website for the professional English language editing companies we recommend: <https://www.wjgnet.com/bpg/gerinfo/240>.

5 Specific comments: (1) Please provide the Figures cited in the original manuscript in the form of PPT. All text can be edited, including A,B, arrows, etc. With respect to the reference to the Figure, please verify if it is an original image created for the manuscript, if not, please provide the source of the picture and the proof that the Figure has been authorized by the previous publisher or copyright owner to allow it to be redistributed. All legends are incorrectly formatted and require a general title and explanation for each figure. Such as Figure 1 title. A: ; B: ; C: .

(2) Please provide the filled conflict-of-interest disclosure form.

(3) Please provide the PubMed numbers to the reference list and list all authors of the references. If there is no PMID or DOI, please provide the website address.

6 Recommendation: Conditional acceptance.

Language Quality: Grade B (Minor language polishing)

Scientific Quality: Grade B (Very good)

Reply to the EDITORIAL OFFICE'S

Thank you for your comments.

1) Figure 1 and its caption have been adjusted.

2) All authors have signed the conflict-of-interest disclosure form.

3) The DOI has been included and the references adjusted.

COMPANY EDITOR-IN-CHIEF COMMENTS:

I have reviewed the Peer-Review Report, full text of the manuscript, all of which have met the basic publishing requirements of the World Journal of Orthopedics, and the manuscript is conditionally accepted. I have sent the manuscript to the author(s) for its revision according to the Peer-Review Report, Editorial Office's comments and the Criteria for Manuscript Revision by Authors.

When revising the manuscript, it is recommended that the author supplement and improve the highlights of the latest cutting-edge research results, thereby further improving the content of the manuscript. To this end, authors are advised to apply PubMed, or a new tool, the Reference Citation Analysis (RCA), of which data source is PubMed. RCA is a unique artificial intelligence system for citation index evaluation of medical science and life science literature. In it, upon obtaining search results from the keywords entered by the author, "Impact Index Per Article" under "Ranked by" should be selected to find the latest highlight articles, which can then be used to further improve an article under preparation/peer-review/revision. Please visit our RCA database for more information at: <https://www.referencecitationanalysis.com/>, or visit PubMed at: <https://pubmed.ncbi.nlm.nih.gov/>.

Reply to the COMPANY EDITOR-IN-CHIEF

We welcome your comments. In the review, we complemented and enhanced the highlights of the latest cutting-edge research results, which improved the content of the manuscript. We used PubMed for the 12 new references with high citations (highlighted in yellow).