

Subject: [BDS] Editor Decision

Dear Yasmin Garcia:

Your submission The EVALUATION OF TISSUE CHANGES INDUCED BY HYALURONIC ACID IN THE INTERDENTAL PAPILLA OF RATS to Brazilian Dental Science, has been revised and according to reviewers' comments, there are questions to be addressed and/or points to be clarified/corrected. Please answer the reviewers considerations point-by-point in a separate document and also please make all the corrections in the text highlighted in yellow.

Deadline: 30 days

Thank you for considering Brazilian Dental Science for publishing your research. We are looking forward the revised version of you manuscript.

Sincerely,

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Reviewer C:

Recommendation: Revisions Required  
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**Questionnaire**

Does the manuscript contain new and significant information to justify publication?\*

Yes

Does the Abstract (Summary) clearly and accurately describe the content of the article?

Yes

Is the problem significant and concisely stated?

Yes

Are the methods or research design described comprehensively? Is the statistical analysis adequate?

Yes

Are the interpretations and conclusions justified by the results?

Yes

Is adequate reference made to other work in the field?

Yes

Is the language acceptable?

Yes

### **Manuscript Structure**

Length of article is:\*

Adequate

Number of tables is:

Adequate

Number of figures is:

Adequate

**Please state any conflict(s) of interest that you have in relation to the review of this paper (state “none” if this is not applicable).**

None

**Rating**

Interest\*

Good

Quality

Good

Originality

Good

Overall

Good

**Recommendation**

Minor Revision

**Would you be willing to review a revision of this manuscript?**

Yes

## **Comments**

### *Comments to the Author*

I suggest the following revisions:

1. Standardize the abbreviation for hyaluronic acid (HA or AH) throughout the text to maintain consistency.
2. Perform a final grammatical and linguistic review to correct minor errors and improve overall clarity.
3. Strengthen the discussion regarding the limitations of extrapolating findings from animal models to human clinical applications.

Additional Comments to the Author:

1. Abstract: The abstract effectively summarizes the objectives, methods, results, and conclusions.  
Consider adding a final sentence emphasizing the implications for future research or clinical practice.
2. Introduction: Consider elaborating on the gap in the literature regarding histological evaluation of hyaluronic acid effects to reinforce the originality of your research.
3. Materials and Methods: Clarify the rationale for selected doses and application intervals and how they relate to clinical practice.
4. Histological Evaluation: Include a brief justification for the scoring system thresholds and if these

are based on prior validated protocols.

5. Statistical Analysis: Ensure consistent reporting of all statistical results with exact p-values where possible.

6. Results: Consider adding brief descriptions below each figure to guide readers through the key findings.

7. Discussion: Expand on the clinical significance of the observed hemorrhage and inflammatory patterns and discuss potential long-term effects beyond 14 days.

8. Limitations: Explicitly discuss potential differences in vascularization and immune response between rats and humans.

9. Language: The manuscript is generally well-written, but professional language editing is recommended.

Overall Comment:

This is a well-conducted study addressing a clinically significant question with sound methodology.

The minor revisions suggested will improve the manuscripts clarity, rigor, and potential impact on the field.

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Reviewer D:

Recommendation: Revisions Required

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## Questionnaire

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**Please state any conflict(s) of interest that you have in relation to the review of this paper (state “none” if this is not applicable).**

None

**Rating**

Interest\*

Excellent

Quality

Excellent

Originality

Excellent

Overall

Excellent

**Recommendation**

Minor Revision

**Would you be willing to review a revision of this manuscript?**

Yes

### **Comments**

#### *Comments to the Author*

I appreciate the opportunity to review this manuscript. The manuscript presents a study with great significance. The histological evaluation of the presence of inflammatory infiltrate and the occurrence of hemorrhage after HA applications in the interdental papilla is very interesting. The purpose of this present study is relevant, and the methodology is adequate. However, some suggestions should be considered to improve study reporting.

Specific considerations:

Material and Methods:

The description of some details of methodology could be more detailed:

1- Were the specimens number based on a previous study or sample calculation?

It needs to be reported.

2- The standardized dose of 0.2 ml of hyaluronic acid was initially used based on previous clinical trials. Is there any explanation for the definition of this measurement? Was there any adjustment in the dose proportion considering the differences between the dimensions of rats and humans interdental papilla?

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