

Dear Paula Carolina Komori de Carvalho, Fernanda Calvo Costa, Natassia Bricks Bourg, Alexandre Luiz Souto Borges, Tarcisio José de Arruda Paes Junior:

Your submission Effect of Relining and Microwave Disinfection on the Dimensional Stability of Denture Bases 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,

Reviewer A:
Recommendation: Revisions Required

Reviewer B:

General Comments

The study addresses a relevant topic in **Prosthodontics**, particularly regarding the interaction between denture relining and microwave disinfection — a protocol increasingly adopted in clinical practice. The overall methodology is well outlined, and the results contribute to a better understanding of how these factors affect the dimensional stability of dentures.

However, to fully reach its scientific potential, the manuscript would benefit from several improvements, especially concerning methodological clarity, textual organization, and minor refinements in the English language.

1. Title and Abstract

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The title is clear and accurately reflects the study's content.

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The abstract is well structured but could include more expressive quantitative data in the results (e.g., percentages or mean dimensional changes).

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The English language is generally understandable, but a few sentences could be revised to improve fluency and scientific precision. A light language review by a fluent speaker is recommended to enhance the text without altering its content.

2. Introduction

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The introduction provides a relevant clinical and scientific context.

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It is suggested to revise the transitions between sentences to improve readability.

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The research hypothesis should be stated more explicitly at the end of the introduction.

3. Materials and Methods

This section presents important details regarding specimen preparation, but some aspects require clarification:

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How was the exact thickness of the relining material (1 mm) ensured in all samples? Was dimensional control performed or direct measurement taken after application?

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The use of metallic weights (1 kg) over the artificial teeth during relining could induce variation. Was this method previously validated or standardized using a specific device?

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Regarding photographic distance measurements, was there any inter-examiner calibration or validation of the measurement reproducibility within the software used?

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Is the sample size ($n = 6$ per group) appropriate for three-way ANOVA? Was a power analysis conducted?

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Regarding water storage at 37 °C, was pH monitored or was the water periodically replaced?

4. Results

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The results are clearly presented and align with the experimental design.

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It would be beneficial to include direct numerical interpretations in the text, such as mean displacement values in millimeters, in addition to the reported percentages.

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Table captions could be more explanatory, indicating the meaning of values above or below 100% and their clinical interpretation.

5. Discussion

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The discussion is well grounded in previous literature, but its organization could be improved for clarity.

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It is recommended to group the content into thematic sections: comparison with previous studies, clinical implications, possible explanations of findings, and study limitations.

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One aspect that deserves further elaboration is the clinical relevance of the observed dimensional changes. For instance, do 2 mm variations in molar–molar distance affect retention, stability, or require occlusal adjustments?

6. Conclusion

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The conclusion accurately reflects the main findings but could be rewritten more concisely and objectively, highlighting the key clinical implications.

Recommendation: Revisions Required



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José dos Campos Universidade Estadual Paulista - UNESP
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