

Review Form 3

Journal Name:	Journal of Advances in Medicine and Medical Research
Manuscript Number:	Ms_JAMMR_124812
Title of the Manuscript:	Pulp alterations and internal root resorption in teeth of ovariectomized rats submitted to experimental extrusive luxation and orthodontic movement
Type of the Article	Original Research Article

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PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.	This study represents an important contribution to the scientific community as it explores the relationship between hormonal changes, such as menopause simulated by ovariectomy, and the biomechanical dynamics of tooth movement. It directly enhances the understanding of how these changes impact orthodontic treatment, particularly in postmenopausal women. By utilizing an animal model that mimics osteoporosis and dental trauma, the study provides valuable insights into how systemic conditions affect tooth movement and root resorption. These findings are crucial for guiding personalized orthodontic care, especially for women experiencing hormonal imbalances	
Is the title of the article suitable? (If not please suggest an alternative title)	Perfer change the title to : "The Impact of Ovariectomy and Dental Trauma on Tooth Movement and Root Tissue Resorption: Findings from a Rat Model "	
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	<ol style="list-style-type: none"> 1- Adding Background: The abstract could benefit from a more detailed introduction that emphasizes the significance of understanding the effects of ovariectomy and dental trauma on orthodontic tooth movement. This could provide context for the importance of the research. 2- In methodology indicate whether they were ovariectomized or not and Explain the type of statistical analysis performed (e.g., ANOVA) and the criteria used to determine differences between groups. 3- Highlight Key Results: Summarize the most critical findings, including specific numerical data where relevant (e.g., rates of tooth movement, incidence of root resorption). This would allow readers to appreciate the magnitude of the effects observed. 4- Strengthen the Conclusion: Conclude with a statement that not only summarizes the findings but also emphasizes their broader implications for orthodontic treatment, particularly in postmenopausal women. This would underscore the relevance of the study to clinical practice. 	
Are subsections and structure of the manuscript appropriate?	The overall structure and subsections of the manuscript appear to be appropriate for conveying the research effectively. Each section is logically organized, beginning with an introduction that contextualizes the study and leading through methods, results, and discussion in a coherent manner. The distinct subsections help to clearly delineate the different aspects of the research, making it easier for readers to follow the flow of information. However, it would be beneficial to ensure that the transitions between subsections are smooth and that each subsection has a clear focus, which would enhance readability and comprehension. while the manuscript's structure is generally suitable, careful attention to transitions and clarity within subsections would further strengthen its organization.	
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.	The manuscript demonstrates a high level of scientific correctness through its rigorous methodology and comprehensive analysis of data. The use of well-established experimental models, such as ovariectomized rats to simulate post-menopausal osteoporosis, adds significant relevance to the findings. Moreover, the statistical analyses employed, including One-Way ANOVA followed by Tukey's test, provide a robust framework for evaluating the differences between groups, enhancing the validity of the results. The thorough discussion of the implications of these findings in the context of orthodontic treatment further underscores the manuscript's technical soundness, offering valuable insights into the interaction between hormonal changes and tooth movement.	

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<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p> <p>-</p>	<p>The references included in the manuscript are sufficient and relevant to the topic of orthodontic tooth movement in ovariectomized rats. They cover studies on the effects of estrogen deficiency and various treatment modalities. To enhance the research, it is recommended to add recent studies from the past few years, as well as comprehensive reviews that reflect the current understanding of the relationship between hormonal changes and orthodontic outcomes. Additionally, including references that discuss advancements in orthodontic materials and techniques could further strengthen the study. Below two references can help you :</p> <p>- WEISSHEIMER, T., DUARTE, P. H. M., DA ROSA, R. A., & SÓ, M. V. R. (2022). DOES ORTHODONTIC MOVEMENTS OF TRAUMATIZED TEETH INDUCE PULP NECROSIS?--A SYSTEMATIC REVIEW. <i>Journal of Research in Dentistry</i>, 10(3).</p> <p>- GABARDO, L. H., PERIN, C. P., & ROSKAMP, L. (2022). MANAGEMENT OF DENTAL TRAUMATOLOGY ACCORDING TO THE INTERNATIONAL ASSOCIATION OF DENTAL TRAUMATOLOGY (IADT): RECENT UPDATES. <i>Journal of Research in Dentistry</i>, 10(3).</p>	
<p>Minor REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>The language quality of the article is mostly acceptable for scholarly communication, but it contains some grammatical errors, awkward phrasing, and spelling mistakes. These issues can affect clarity and professionalism. A thorough proofreading is recommended to improve overall language quality.</p>	
<p>Optional/General comments</p>		

PART 2:

	<p>Reviewer's comment</p>	<p>Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</p>
<p>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

Reviewer Details:

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