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| Journal Name: | [**Journal of Advances in Medicine and Medical Research**](https://journaljammr.com/index.php/JAMMR) |
| Manuscript Number: | **Ms\_JAMMR\_140872** |
| Title of the Manuscript: | **Orthodontic tooth movement associated with hypothalamic obesity causes reduction in the rate of tooth movement and increase of periodontal alterations: Experimental Study in Rats** |
| Type of the Article | **Original Research Article** |

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| **PART 1: Comments** | | |
|  | **Reviewer’s comment**  **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **Author’s Feedback** (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. A minimum of 3-4 sentences may be required for this part.** | The article is addressing an important topic regarding obesity and its potential side effects alongside orthodontic tooth movement. This topic is particularly important currently, due to the increased obesity rates worldwide, in addition to the increased demand on orthodontic treatment and seeking perfect smiles. So, will this particular condition, which might be overlooked by many as a factor affecting treatment, have a significant effect? |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | I believe that the title is more of a statement of the reported findings which I don’t find suitable. A suggested title could be: “Effects of Hypothalamic Obesity-Associated Orthodontic Tooth Movement on the Periodontal Tissues in Rats: An Experimental Study”.  This suggested title is more related to the stated aim of the study in the Abstract section; hence, it is more informative to the reader. Please edit accordingly. |  |
| **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.** | The Aim stated in the abstract is mainly addressing the periodontal conditions associated with hypothalamic obesity and tooth movement. However, the Results and the Conclusions primarily address tooth movement rate, which is quite confusing as to the primary aim of the study in contrast to secondary aims. This also affects the study Title, as it should be addressing main study outcome. Moreover, the results are poorly presented with no p-values at least indicating their significance levels. |  |
| **Is the manuscript scientifically, correct? Please write here.** | INTRODUCTION  . I believe your aim should include all the assessed outcomes in your investigation.  . Also, a null hypothesis must be stated following your aims. METHODOLOGY  . Regarding the sample size calculation, which reference was it based on with regards to the means and standard deviations of your primary outcome? Or was a pilot study performed? If yes, then mention its details, since the reference provided relates to the calculation itself.  DISCUSSION  . Please state whether the null hypothesis is accepted or rejected. |  |
| **Are the references sufficient and recent? If you have**  **suggestions of additional references, please mention them in the review form.** | Yes, the references cited are appropriate. |  |
| **Is the language/English quality of the article suitable for scholarly communications?** | Yes, only minor revisions are needed throughout the text. |  |
| **Optional/General** comments |  |  |

PART 2:

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|  | **Reviewer’s comment** | **Author’s Feedback** (It is mandatory that authors should write his/her feedback here) |
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in detail)*  No ethical issues. |  |

**Reviewer details:**

**Farah Yousry Eid, Alexandria University, Egypt**