

## Review Form 1.7

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| Journal Name:            | <b>Journal of Advances in Medicine and Medical Research</b>                                   |
| Manuscript Number:       | <b>Ms_JAMMR_104637</b>  |
| Title of the Manuscript: | <b>HISTOLOGICAL EVALUATION OF MANDIBULAR CONDYLE AFTER JAW PROTRUSIVE STIMULATION IN RATS</b> |
| Type of the Article      | <b>Original Research Article</b>  |

### **General guideline for Peer Review process:**

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journaljammr.com/index.php/JAMMR/editorial-policy> )

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**PART 1: Review Comments**

|  | <b>Reviewer's comment</b>   | <b>Author's comment</b> <i>(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)</i> |
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| <p><b><u>Compulsory</u></b> REVISION comments</p> <p><b>1. Is the manuscript important for scientific community?</b><br/>(Please write few sentences on this manuscript)</p> <p><b>2. Is the title of the article suitable?</b><br/>(If not please suggest an alternative title)</p> <p><b>3. Is the abstract of the article comprehensive?</b></p> <p><b>4. Are subsections and structure of the manuscript appropriate?</b></p> <p><b>5. Do you think the manuscript is scientifically correct?</b></p> <p><b>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></p> <p><b><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></b></p> | <p>This article is important for the scientific community due to its exploration of the effects of mandibular advancement therapies on cartilage and bone remodeling in the mandibular condyle region. This research can advance orthodontic treatments, offer valuable knowledge on tissue remodeling, and potentially lead to improved outcomes for patients with mandibular deficiencies and malocclusions.</p> <p>Yes, the title is suitable. It accurately reflects the main focus of the article, which is the histological evaluation of the mandibular condyle region in rats after undergoing jaw protrusive stimulation. The title provides a clear and concise description of the study's subject and methodology.</p> <p>Yes, the abstract of the article is comprehensive. It provides a clear overview of the study's objective, materials and methods, results, and conclusion. The abstract outlines the research design, including the use of experimental and control groups, the age of the rats, and the specific techniques employed for evaluation. It also summarizes the main findings, highlighting the increase in cell and area in different layers of the condyle after mandibular advancement in rats of different ages. Additionally, it acknowledges the need for further studies to gain a deeper understanding of the adaptive responses in the condyle due to functional orthopedic stimuli.</p> <p>Yes, the manuscript follows a suitable structure for a research article.</p> <p>Yes, the manuscript is scientifically correct.</p> <p>The references are varied and cover a span of years, indicating a comprehensive exploration of existing literature in the field.</p> <p>1- The selected keywords effectively highlight the main focus and key aspects of the study. They cover important topics related to the research, making it easier for readers and researchers to understand the main subject matter and scope of the article.</p> <p>2- Here are some additional suggestions/comments to enhance the manuscript:</p> <ul style="list-style-type: none"> <li>- The introduction is well-structured and provides a comprehensive background to support the need for the study, making it a suitable start to the research article.</li> <li>- The "Materials and Methods" section is comprehensive and provides a clear overview of the study design, animal sample, experimental procedures, and data analysis. It includes</li> </ul> |   |

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|  | <p>relevant details about the anesthesia, mandibular advancement, macroscopic morphometric analysis, and cytological and histological analysis. The use of ImageJ for measurements and the intra-examiner agreement verification adds rigor to the study. Overall, the section is well-organized and provides enough information for readers to understand the experimental setup and the data analysis process. It is essential to maintain clarity and transparency in the methods to ensure the study's reproducibility and credibility.</p> <ul style="list-style-type: none"> <li>- The results section is clear, well-organized, and presents detailed findings for each age group. More context on the significance of results and their relation to the study's objectives could enhance the section.</li> <li>- The discussion provides a comprehensive analysis of the study's findings, highlighting the effects of functional orthopedic stimulation on the mandible at different stages of development. It explains the adaptive response of the condyle cartilage induced by mandibular advancement, leading to increased cell proliferation and differentiation. The discussion also draws comparisons with previous research, supporting the study's conclusions.<br/>To improve conciseness, consider breaking down the discussion into subsections, addressing specific points, and using bullet points for key findings. Additionally, you may want to reiterate the main implications of the results in relation to the study's objectives. Overall, the discussion is well-informed and can be enhanced with a more focused and structured presentation.</li> <li>- The conclusion provided seems to be a concise summary of the main findings from the study. It highlights that the protrusion of the mandible in rats at different developmental stages (pre-pubertal, post-pubertal, and adult) resulted in an increase in the number of cells and the area in various layers of the condyle.<br/>However, to have a more comprehensive understanding of the study's significance, it would be beneficial to include additional information, such as the potential implications of these findings, how they contribute to the existing body of knowledge, and any future research directions suggested by the results.</li> <li>- The provided tables and figures are appropriate. The titles are clear and concise, effectively summarizing the information presented in each table and figure.</li> </ul> |  |
| <p><b>Minor</b> REVISION comments</p> <p>1. <b>Is language/English quality of the article suitable for scholarly communications?</b></p> | <p>The language and English quality of the article appear to be suitable for scholarly communications. The text is well-written and conveys the research findings and discussions effectively. The use of technical terminology and scientific language is appropriate for the subject matter, and the sentences are clear and coherent.</p>   |  |
| <p><b>Optional/General</b> comments</p>  | <p>The article is well-structured and provides detailed information about the study design, methods, results, and discussion. The inclusion of animal models (rats) in the research allows for insights into mandibular growth and adaptation to functional orthopedic stimulation. The study addresses an important topic related to orthodontic treatments and offers potential implications for clinical practice.</p> <p>Additionally, the article could benefit from visual aids, such as graphs, to present the data more comprehensively. Including visual representations of the results would make it easier for readers to understand the findings at a glance.</p>  |  |

**PART 2:**

|  | <b>Reviewer's comment</b>   | <b>Author's comment</b> (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) |
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| <p><b>Are there ethical issues in this manuscript?</b></p> | <p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p> |  |

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**Reviewer Details:**

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| Name:                            | <b>Safae El Abkari</b>                |
| Department, University & Country | <b>Mohammed V University, Morocco</b> |