

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Clinical Cases*

**Manuscript NO:** 69672

**Title:** Multidisciplinary non-surgical treatment of advanced periodontitis: A case report

**Provenance and peer review:** Unsolicited manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 05989344

**Position:** Peer Reviewer

**Academic degree:** DDS, MD, MSc

**Professional title:** Assistant Professor

**Reviewer's Country/Territory:** Armenia

**Author's Country/Territory:** China

**Manuscript submission date:** 2021-08-26

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-09-02 01:20

**Reviewer performed review:** 2021-09-02 19:21

**Review time:** 18 Hours

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous

statements

Conflicts-of-Interest: [ ] Yes [Y] No

## SPECIFIC COMMENTS TO AUTHORS

Thank You very much for providing an opportunity to review the manuscript titled “Multidisciplinary non-surgical treatment of advanced periodontitis: A case report”. Authors of current case report aimed to evaluate the efficacy of multidisciplinary non-surgical treatment in a patient with chronic periodontitis, malocclusion and dentition defects. There are some concerns and questions: 1. In the Introduction authors presented information about prosthetic treatment of patients with periodontal pathology, however some basic information is missing here (some specific and appropriate studies concerning to prosthetic treatment of patients with periodontal pathology see below). 2. In the end of Introduction authors should clearly present the aim of this case report. 3. In Case Presentation authors should expand information regarding complaints and symptoms (presence or absence of halitosis, bleeding during tooth brushing, gum tenderness etc.). 4. In my view separate Methodology/Technique section should be added, where authors should present all the examination methods (Florida Probe, periodontal pocket depth measurement, plaque (oral hygiene), bleeding, tooth mobility assessment, X-ray evaluation, etc). 5. In Physical examination authors wrote about Patient consent and Ethical approval. In my view, this information should be presented under new subheading. 6. In the Initial periodontal therapy it is written “plaque accumulation markedly decreased from 100 - 17%”. Which index was used to assess plaque accumulation? 7. In the Initial periodontal therapy it was written “PD markedly improved”. What it means? Depth of periodontal pocket can be within normal limits (up to 3mm) because of gingival recession, however for understanding of real condition of periodontium it should be measured from CEJ up to the floor of periodontal pocket (this should be assessed before, during and after treatment to judge about the effectiveness of

treatment). Please clarify for a reader. 8. Under Outcome and Follow up section authors should add appropriate studies, discuss and compare with their own study. Here are some latest studies about prosthetic treatment of patients with periodontal pathology: 1. Avetisyan, A.; Markaryan, M.; Rokaya, D.; Tovani-Palone, M.R.; Zafar, M.S.; Khurshid, Z.; Vardanyan, A.; Heboyan, A. Characteristics of Periodontal Tissues in Prosthetic Treatment with Fixed Dental Prostheses. *Molecules* 2021, 26, 1331. <https://doi.org/10.3390/molecules26051331> 2. Heboyan, A.; Manrikyan, M.; Zafar, M.S.; Rokaya, D.; Nushikyan, R.; Vardanyan, I.; Vardanyan, A.; Khurshid, Z. Bacteriological Evaluation of Gingival Crevicular Fluid in Teeth Restored Using Fixed Dental Prostheses: An In Vivo Study. *Int. J. Mol. Sci.* 2021, 22, 5463. <https://doi.org/10.3390/ijms22115463> 3. Heboyan A, Syed AUY, Rokaya D, Cooper PR, Manrikyan M, Markaryan M. Cytomorphometric Analysis of Inflammation Dynamics in the Periodontium Following the Use of Fixed Dental Prostheses. *Molecules*. 2020; 25(20):4650. <https://doi.org/10.3390/molecules25204650> 4. Heboyan, A.; Manrikyan, M.; Markaryan, M.; Vardanyan, I. Changes in the parameters of gingival crevicular fluid in masticatory function restoration by various prosthodontic constructions. *Int. J. Pharm. Res.* 2020, 12, 2088–2093. Overall Taking into considerations all above-mentioned questions and concerns I suggest Major revision.

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**Peer-review model:** Single blind

**Reviewer's code:** 05685534

**Position:** Peer Reviewer

**Academic degree:** PhD

**Professional title:** Chairman, Professor

**Reviewer's Country/Territory:** Egypt

**Author's Country/Territory:** China

**Manuscript submission date:** 2021-08-26

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-09-02 14:02

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<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous

statements

Conflicts-of-Interest: [ ] Yes [Y] No

## SPECIFIC COMMENTS TO AUTHORS

Multidisciplinary non-surgical treatment of advanced periodontitis: A case report  
Please replace the words chronic periodontitis and advanced periodontitis in the abstract section by the grading and staging new classification system Initial periodontal therapy was based on mechanical removal of bacterial plaque via non-surgical treatment, with standardized supra- and subgingival scaling plus root planning (SRP). Please define the instruments and methods of making conventional non surgical therapy and if you did only root debridement or vigorous root planning Please define the commercial name and characteristics of the endoscope and how much the user is competent in using the devise reinforcement of oral hygiene processes. Please mention a detailed instructions Orthodontic treatment was therefore initiated, with thorough examination and risk assessment using a Florida Probe. you have mentioned that some teeth are extremely mobile and others showed more than one mobility score , I have concerns about orthodontic therapy in the presence of such situation, specially you did not menton the labial pate thickness of affected teeth which could be very thin or lacking , please explain Please mention the linear measurements regarding hard tissue parameters specially those related to the teeth with extreme mobility For example, Barros et al. showed that non-surgical periodontal treatment alone could result in improvements in alveolar bone density[16], while a recent review demonstrated no significant difference in clinical outcomes between surgical and non-surgical periodontal therapy[15]. Please refer to systematic reviews related to the subject

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**Peer-review model:** Single blind

**Reviewer's code:** 05342278

**Position:** Peer Reviewer

**Academic degree:** PhD

**Professional title:** Teaching Assistant

**Reviewer's Country/Territory:** Kosovo

**Author's Country/Territory:** China

**Manuscript submission date:** 2021-08-26

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-09-02 11:00

**Reviewer performed review:** 2021-09-10 09:54

**Review time:** 7 Days and 22 Hours

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous

statements

Conflicts-of-Interest: [ ] Yes [Y] No

#### **SPECIFIC COMMENTS TO AUTHORS**

At the Material and Methods section there is a description of the physical (clinical) examination which has diagnosed the condition(s) of the patient, but there is also another part named Final Diagnosis, which describes only the periodontal condition, not orthodontic. Either the Final Diagnosis should be removed, or add other diagnoses to this section. Anyway, keeping both of these sounds like repetition of the same facts. Devices used in this case should be identified with their manufacturer, describing their model and place of production, e.g. periodontal endoscope, Florida Probe. Figures are not named, except fig 2. What mobility index was used to determine "extremely loose" 31 and 41 teeth or mobility  $\geq 1^\circ$ . Please explain how "plaque-positive" tooth was evaluated (visually, using probe, using disclosing agents...). Conclusion should be rephrased (it shouldn't start with "This case report...")