Dear Editor-in-Chief,

We would like to thank you for the opportunity of revising our manuscript. We have revised this manuscript according to the kind comments from peer-reviews and science editor.

Reviewer #1:

Scientific Quality: Grade C (Good)
Language Quality: Grade B (Minor language polishing)
Conclusion: Accept (General priority)
Specific Comments to Authors: Author have presented two cases of periodontal treatment with combination of Er:YAG laser and A-PRF+. This is a novel approach. this could be done on a larger sample size.

Reply 1: Thanks for your support.

Reviewer #2:

Scientific Quality: Grade C (Good)
Language Quality: Grade B (Minor language polishing)
Conclusion: Major revision
Specific Comments to Authors: A review report of the manuscript titled "Erbium: YAG Laser and Advanced platelet-rich fibrin+ in Periodontitis and Alveolar Bony Defects". Authors of current paper presented clinical cases of patients oral diseases treated with a combination of Er:YAG laser and A-PRF+. It was concluded that debridement with an Er:YAG laser followed by treatment with A-PRF+ is effective for the treatment periodontal diseases with bone defects. Here are my concerns, questions and recommendations:

Q1: Line 77: The standard of periodontal therapy is to increase the bone level. It is not clear how bone level can be increased? Please clarify and provide reference that readers can access the original source.

Reply1: I have rewritten the sentence and added the information and reference in the introduction section of the revised manuscript (page 3, lines 23-27).

Q2: Line 85-88: This sentence should be revised. It is not clear what means …to remove pathogens and other materials…? Pathogens are not materials.

Reply2: I have rewritten the sentence in the introduction section of the revised manuscript (page

4, lines 7).

Q3: Line 130, 146: What was used for magnification? (name, brand, country)

Reply3: I have added the information in the treatment section of the revised manuscript (page 6, lines 4 and page 6, lines 22).

Q4: Line 133: Please cite the appropriate protocol reference.

Reply4: I have added the information in the treatment section of the revised manuscript (page 6, lines 8).

Q5: Clinical cases should be presented with more details, since it its form it is lack of information and cannot be reproducible. Moreover, additional information should be presented regarding A-PRF+ membrane.

Reply5: I agree with the reviewer's comment. Presenting study shows the therapeutic effects of Er:YAG laser and A-PRF+ combined treatment on 2 cases of patients with periodontitis and alveolar bony defects. Therefore, more clinical data, such as PD and CAL, might clarify the Er:YAG laser and A-PRF+ therapeutic effects on periodontal disease in my further studies.

The A-PRF+ liquid and membrane were extracted from the patient's whole blood. A-PRF+ liquid was obtained by centrifuging the whole blood of the patient at 1300 rpm for 5 minutes and the A-PRF+ membrane was obtained by centrifuging the whole blood at 1300 rpm for 8 minutes to obtain the mixture of A-PRF+ and fibrin clot. Both of them are enriched by multiple growth factors, such as PFGF, VEGF, TGF-β1, IGF, and EGF (Reference:18-22), unlike A-PRF+ liquid, the A-PRF+ membrane is a mixture of A-PRF+ and fibrin clot, which can cover the wound directly to promote tissue regeneration. These operation steps followed the extraction protocol of the PRF Instrument kit (Process for PRF, Nice, France), this information and reference have been added in the treatment section of the revised manuscript (page 6, lines 8-12 and page 6, lines 25).

Q6: For the Discussion I would like to recommend several articles which should be discussed:

✧ Srimaneepong, V.; Heboyan, A.; Zafar, M.S.; Khurshid, Z.; Marya, A.; Fernandes, G.V.O.; Rokaya, D. Fixed Prosthetic Restorations and Periodontal Health: A Narrative Review. J. Funct. Biomater. 2022, 13, 15. https://doi.org/10.3390/jfb13010015

- ✧ Vardhan, P.K.; Paramashivaiah, R.; Prabhuji, M.L.V.; Bhavikatti, S.K.; Basha, S.; Arora, S.; Basheer, S.N.; Peeran, S.W.; Aldowah, O.; Heboyan, A. The Effect of Photodynamic Therapy on the Early Outcome of Implants Placed on Patients with Periodontitis. Photonics 2022, 9, 480. https://doi.org/10.3390/photonics9070480
- ✧ 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

Reply6: Those references have been added in the discussion section of the revised manuscript (page 7, lines 27 and page 8, lines 23). Thanks for your support.

7. In the end of the discussion authors should highlight the possible limitations of the treatment method.

Reply7: The information has been added in the conclusion section of the revised manuscript (page 9, lines 3-4)

Reviewer #3:
Scientific Quality: Grade C (Good)
Language Quality: Grade B (Minor language polishing)
Conclusion: Accept (General priority)
Specific Comments to Authors: Severe periodontal disease and Alveolar bone defects are very difficult diseases in clinic. In this paper, Er:YAG laser and A-PRF+ were used to treat 2 cases of this disease, and good results were achieved . This kind of treatment experience is worth spreading and studying. It is also hoped that the author will accumulate more cases and publish the results of treatment.

Reply 1: Thanks for your support.

ABBREVIATIONS
In general, do not use non-standard abbreviations, unless they appear at least two times in the text preceding the first usage/definition. Certain commonly used abbreviations, such as DNA, RNA, HIV, LD50, PCR, HBV, ECG, WBC, RBC, CT, ESR, CSF, IgG, ELISA, PBS, ATP, EDTA, and mAb, do not need to be defined and can be used directly.

The basic rules on abbreviations are provided here:

(1) Title: Abbreviations are not permitted. Please spell out any abbreviation in the title.

Reply 1: Article title has been changed to full name.

(2) Running title: Abbreviations are permitted. Also, please shorten the running title to no more than 6 words.

Reply 2: Running title has been corrected to less than six words.

(3) Abstract: Abbreviations must be defined upon first appearance in the Abstract. Example 1: Hepatocellular carcinoma (HCC). Example 2: Helicobacter pylori (H. pylori).

Reply 3: Full name has been added in abstract of revised manuscript.

(4) Key Words: Abbreviations must be defined upon first appearance in the Key Words.

Reply 4: Full name has been added in Key words of revised manuscript.

(5) Core Tip: Abbreviations must be defined upon first appearance in the Core Tip. Example 1: Hepatocellular carcinoma (HCC). Example 2: Helicobacter pylori (H. pylori)

Reply 5: Full name has been added in Core Tip of revised manuscript.

(6) Main Text: Abbreviations must be defined upon first appearance in the Main Text. Example 1: Hepatocellular carcinoma (HCC). Example 2: Helicobacter pylori (H. pylori)

Reply 6: Full name has been added in first appearance in the Main Text of revised manuscript.

(7) Figures: Abbreviations are not allowed in the Figure title. For the Figure Legend text, abbreviations are allowed but must be defined upon first appearance in the text. Example 1: A: Hepatocellular carcinoma (HCC) biopsy sample; B: HCC-adjacent tissue sample. For any abbreviation that appears in the Figure itself but is not included in the Figure Legend textual description, it will be defined (separated by semicolons) at the end of the figure legend. Example 2: BMI: Body mass index; US: Ultrasound.

Reply 7: Full name has been added in each Figure title, and the abbreviation has been defined in the end of the Figure Legend.

Science editor:

Q1: The manuscript has been peer-reviewed, and it' s ready for the first decision.

Language Quality: Grade B (Minor language polishing)

Scientific Quality: Grade C (Good)

Reply1: This article has been sent to a professional English editing company for English editing and the company's English editing certificate is attached.

Company editor-in-chief:

Q1: I have reviewed the Peer-Review Report, the full text of the manuscript, and the relevant ethics documents, all of which have met the basic publishing requirements of the World Journal of Clinical Cases, and the manuscript is conditionally accepted. I have sent the manuscript to the author(s) for its revision according to the Peer-Review Report, Editorial Office's comments and the Criteria for Manuscript Revision by Authors. Before final acceptance, uniform presentation should be used for figures showing the same or similar contents; for example, "Figure 1 Pathological changes of atrophic gastritis after treatment. A: ...; B: ...; C: ...; D: ...; E: ...; F: ...; G: ...". Please provide the original figure documents. Please prepare and arrange the figures using PowerPoint to ensure that all graphs or arrows or text portions can be reprocessed by the editor. In order to respect and protect the author's intellectual property rights and prevent others from misappropriating figures without the author's authorization or abusing figures without indicating the source, we will indicate the author's copyright for figures originally generated by the author, and if the author has used a figure published elsewhere or that is copyrighted, the author needs to be authorized by the previous publisher or the copyright holder and/or indicate the reference source and copyrights. Please check and confirm whether the figures are original (i.e. generated de novo by the author(s) for this paper). If the picture is 'original', the author needs to add the following copyright information to the bottom right-hand side of the picture in PowerPoint (PPT): Copyright ©The Author(s) 2022. Before final acceptance, when revising the manuscript, the author must supplement and improve the highlights of the latest cutting-edge research results, thereby further improving the content of the manuscript. To this end, authors are advised to apply a new tool, the RCA. RCA is an artificial intelligence technology-based open multidisciplinary citation analysis database. In it, upon obtaining search results from the keywords entered by the author, "Impact Index Per Article" under "Ranked by" should be selected to find the latest highlight articles, which can then be used to further improve an article under preparation/peer-review/revision. Please visit our RCA database for more information at: https://www.referencecitationanalysis.com/.

Reply1: The uniform presentation is used for figures showing the same or similar contents, and the original data of figures are arranged using PowerPoint.

We would like to thank you for your time and consideration. If you require additional information, please do not hesitate to contact us. We look forward to hearing from you.

Sincerely yours,

Kai-Seng Tan

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