

PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 72782

Title: Management of the palato-radicular groove with a periodontal regenerative procedure and prosthodontic treatment: A case report

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 00742092

Position: Peer Reviewer

Academic degree: DDS, MSc, PhD

Professional title: Doctor, Professor, Senior Researcher

Reviewer's Country/Territory: Italy

Author's Country/Territory: China

Manuscript submission date: 2021-10-28

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-11-04 09:59

Reviewer performed review: 2021-11-04 11:09

Review time: 1 Hour

Scientific quality	<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 Grade E: Do not publish
Language quality	<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
Conclusion	<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
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

Dear Authors, I have read the manuscript with interest and some questions raised. Enlisted please find my comments. Overall. General English grammar revision (Minor spelling errors). Key words. "dentistry" and "periodontology" could be added in my opinion. Introduction. Authors stated "PRG usually occurs on the palatal side of maxillary lateral incisors without dental caries or trauma". Please add a reference for this statement. Case Presentation Authors stated "On examination, tooth 12 had an intact crown without defect or fracture, but it did not respond to electric pulp testing.". Please add details about pulp tester the first time it appears in the text: commercial name manufacturer, City and State. Case Presentation Authors stated "Periodontal examination revealed a 14-mm probing depth on the distal side of the root (Fig. 1b)". Please add details about the probe: commercial name manufacturer, City and State. Case Presentation Authors stated "Dimensional reconstruction visualized a large bone defect and a long PRG extending up to the apical part of the tooth". Please add details about software used, version, Manufacturer, City and State. Treatment stated "The surgical area was disinfected". Please point out how. Discussion. Authors stated "Interdisciplinary approaches are recommended for managing such situations, such as degranulation of the defect, sealing of the groove, endodontic treatment, bone regeneration treatment, and prosthodontic treatment.". Some discussion should be added concerning possible ancillary helpful therapies. It could be stated that "Some unexplored variables can have a significant influence on oral environment. The use of probiotics (Probiotic Alternative to Chlorhexidine in Periodontal Therapy: Evaluation of Clinical and Microbiological Parameters. Butera A, Gallo S, Maiorani C, Molino D,

Chiesa A, Preda C, Esposito F, et al. *Microorganisms*. 2020 Dec 29;9(1):69.) and natural compounds (Chitosan and Hydroxyapatite Based Biomaterials to Circumvent Periprosthetic Joint Infections. Costa-Pinto AR, Lemos AL, Tavaría FK, Pintado M. *Materials* (Basel). 2021 Feb 8;14(4):804.) can modify Clinical and Microbiological Parameters in periodontal patients, they could have an effect also in the response to the technique described in the present report. All these variables should be considered in future clinical trials". Discussion. Authors stated "The healing of the tooth was uneventful, and the bone around the defect was stable after two years. To date, no studies have reported the result of iRoot BP plus used in sealing PRG. The present case may provide a clinical basis for a new application of this material". It should be added that also other applications could be tested. It could be pointed out that "Additionally. Laser (Effects of ozonated olive oil and photobiomodulation using diode laser on gingival depigmented wound: A randomized clinical study. Tualzik T, Chopra R, Gupta SJ, Sharma N, Khare M, et al. *J Indian Soc Periodontol*. 2021 Sep-Oct;25(5):422-426.) and ozone (Butera A, Gallo S, Pascadopoli M, Luraghi G, et al. *Ozonized Water Administration in Peri-Implant Mucositis Sites: A Randomized Clinical Trial*. *Applied Sciences*. 2021; 11(17):7812.) therapies have been proposed for periodontal health showing promising results. Future reports are needed in order to test these therapies also for PRG". Discussion. Please add a paragraph concerning the treatment alternatives. Discussion. Please add a paragraph showing the limitations of the present report. References. Some references are quite old (1968;1985;1981;1993;1989;1996). If possible, please switch with some more modern research. Some recent studies have been suggested in the sections above.

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Reviewer's code: 02921008

Position: Editorial Board

Academic degree: DDS

Professional title: Academic Research, Doctor

Reviewer's Country/Territory: Iran

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Reviewer performed review: 2021-11-13 03:06

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Scientific quality	<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
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<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
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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SPECIFIC COMMENTS TO AUTHORS

Please improve the grammar. Please download the CARE checklist for case reports, and apply all its items to the article. Upload the filled checklist with revision. Please elaborate on the novelty of this case report, in the introduction.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: *World Journal of Clinical Cases*

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Professional title: Academic Research, Doctor

Reviewer's Country/Territory: Iran

Author's Country/Territory: China

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statements

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

SPECIFIC COMMENTS TO AUTHORS

Please download the CARE checklist and apply all its items to the revised paper. ALL items are needed. Attached the filled in checklist too.

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Author's Country/Territory: China

Manuscript submission date: 2021-10-28

Reviewer chosen by: Xin-Ran Guo

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Reviewer performed review: 2022-01-10 08:44

Review time: 2 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
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statements

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

SPECIFIC COMMENTS TO AUTHORS

Dear Authors, The manuscript has been revised taking into careful account all the comments. Introduction is complete. Materials and Methods are correct. Results are clear. Discussion is wide and well written. Conclusions are sound. References are adequate. Figures and Tables are readable and explanatory. Good job.