

PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 75911

Title: Multi-disciplinary Treatment of Maxillofacial Skeletal Deformities by Orthognathic Surgery Combined with Periodontal Phenotype Modification: A Case Report

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05755592

Position: Editorial Board

Academic degree: FCPS, MBBS

Professional title: Assistant Professor

Reviewer's Country/Territory: Pakistan

Author's Country/Territory: China

Manuscript submission date: 2022-03-29

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-04-01 03:42

Reviewer performed review: 2022-04-10 08:24

Review time: 9 Days and 4 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 Grade E: Do not publish
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 checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection



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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

Please Do the minor changes as advised.

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Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03820802

Position: Editorial Board

Academic degree: DDS, MSc, PhD

Professional title: Associate Professor

Reviewer's Country/Territory: Brazil

Author's Country/Territory: China

Manuscript submission date: 2022-03-29

Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2022-05-16 10:11

Reviewer performed review: 2022-05-16 10:26

Review time: 1 Hour

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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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

Congratulations. The manuscript is very well written and describes a very interesting clinical case. Minor suggestions are given to improve the text.

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Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 00728151

Position: Editorial Board

Academic degree: DDS, PhD

Professional title: Associate Professor

Reviewer's Country/Territory: Brazil

Author's Country/Territory: China

Manuscript submission date: 2022-03-29

Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2022-05-16 13:07

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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
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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

SPECIFIC COMMENTS TO AUTHORS

The paper is interesting and may be publisher in the World Journal of Clinical Cases.

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Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05182411

Position: Peer Reviewer

Academic degree: DDS, PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: Italy

Author's Country/Territory: China

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Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2022-05-09 14:11

Reviewer performed review: 2022-05-16 18:56

Review time: 7 Days and 4 Hours

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

In the manuscript entitled: "Multi-disciplinary Treatment of Maxillofacial Skeletal Deformities by Orthognathic Surgery Combined with Periodontal Phenotype Modification: A Case Report", the authors examined comprehensive management of a patient with skeletal Class III malocclusion and facial asymmetry. The authors found that the case highlighted the importance and benefits of periodontal phenotype modification, which can effectively prevent serious complications such as anterior attachment loss and compromise to the treatment outcome. Corticotomy combined bone augmentation with or without gingiva augmentation, can not only increase the safety of treatment, but also stretch the limits of deformity correction. The authors concluded that in cases with dentofacial deformities, it is important to correctly recognize skeletal discrepancies prior to treatment. Additionally, irrespective of whether the patients were treated with orthodontic camouflage or the orthodontic-orthognathic approach, it is important to consider the periodontal phenotype. In select cases, corticotomy combined with soft and hard tissues augmentation could help overcome some of the limits of the treatment while resulting in optimal outcomes. Major comments: In general, the idea and innovation of this study, regards Maxillofacial Skeletal Deformities by Orthognathic Surgery Combined with Periodontal Phenotype Modification is interesting, because the role these aspects in medicine and dentistry are validated but further studies on this topic could be an innovative issue in this field could be open a creative matter of debate in literature by adding new information. Moreover, there are few reports in the literature that studied this interesting topic with this kind of study design. The study was well

conducted by the authors; However, there are some concerns to revise that are described below. The introduction section resumes the existing knowledge regarding the important factor linked with craniofacial malocclusions. However, as the importance of the topic, the reviewer strongly recommends, before a further re-evaluation of the manuscript, to update the literature through read, discuss and must cites in the references with great attention all of those 3 recent interesting articles, that helps the authors to better introduce and discuss the role of TMJ and malocclusions and tooth inclusion involved in oral malocclusions. 1) doi: 10.1016/j.jbbspin.2015.04.014. PMID: 26552635 2) Perillo L, Isola G, Esercizio D, Iovane M, Triolo G, Matarese G. Differences in craniofacial characteristics in Southern Italian children from Naples: a retrospective study by cephalometric analysis. Eur J Paediatr Dent. 2013 Sep;14(3):195-8. 3) doi: 10.2319/050615-309.1. PMID: 26502299 The authors should be better specified, at the end of the introduction section, the rational of the study and the aim of the study. In the central section, should better dentofacial characteristics. The discussion section appears well organized with the relevant paper that support the conclusions, even if the authors should better discuss the relationship malocclusions, TMJ dysfunctions and Tooth inclusions as causes of mlocclusions. The conclusion should reinforce in light of the discussions. In conclusion, I am sure that the authors are fine clinicians who achieve very nice results with their adopted protocol. However, this study, in my view does not in its current form satisfy a very high scientific requirement for publication in this journal and requests a revision before a futher re-evaluation of the manuscript. Minor Comments: Abstract: - Better formulate the abstract section by better describing the aim of the study Introduction: - Please refer to major comments Discussion - Please add a specific sentence that clarifies the results obtained in the first part of the discussion - Page 20 last paragraph: Please reorganize this paragraph that is not clear

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Peer-review model: Single blind

Reviewer's code: 00742372

Position: Peer Reviewer

Academic degree: MDS

Professional title: Doctor, Professor

Reviewer's Country/Territory: India

Author's Country/Territory: China

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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
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
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SPECIFIC COMMENTS TO AUTHORS

The manuscript seems bit lengthy for a case report and should be shortened. First paragraph in the introduction section seems irrelevant and can be deleted. Table describing treatment timeline can also be deleted and should be described in words while describing case report. Line 151 'transplant' should be replaced with graft. Line 198 'BSSRO' should be replaced with bilateral sagittal split osteotomy. While writing materials used to treat the case, city and country of the manufacturer should also be mentioned within brackets. The case report may be published after these modifications.

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Position: Peer Reviewer

Academic degree: DDS

Professional title: Professor

Reviewer's Country/Territory: Colombia

Author's Country/Territory: China

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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
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SPECIFIC COMMENTS TO AUTHORS

Please correct line 154: Figure 4. Gingiva augmentation. Mucograft was transplanted to #33-#43. A, Before the Discussion: Line 274 This combination of procedures successfully prevented further bone dehiscence and GR during orthodontic decompensation. In other words, it allowed the reposition of teeth to the extent that could not be achieved without periodontal phenotype modification. Its mandatory one reference supporting this affirmation. The clinical impact of the increased periodontal phenotype is diminished by root resorption in lower incisors at the end of treatment. Please consider this reference in discussion section: Alvarez MA, Mejia A, Alzate D, Rey D, Ioshida M, Aristizabal JF, Rios HF, Bellaiza-Cantillo W, Tirado M, Ruellas A, Cevitanes L. Buccal bone defects and transversal tooth movement of mandibular lateral segments in patients after orthodontic treatment with and without piezocision: A case-control retrospective study. Am J Orthod Dentofacial Orthop. 2021 Mar;159(3):e233-e243.