

PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 84454

Title: Improved super-elastic Ti-Ni alloy wire intrusion arch for skeletal class II malocclusion combined with deep overbite: A case report

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 00742049

Position: Editorial Board

Academic degree: MSc

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: Taiwan

Manuscript submission date: 2023-03-22

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-04-02 11:58

Reviewer performed review: 2023-04-06 01:37

Review time: 3 Days and 13 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

Scientific significance of the conclusion in this manuscript	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
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 type="checkbox"/> Yes <input checked="" 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

This is a simple case report on the treatment of a class II malocclusion. The case has been well treated and well illustrated. However, the authors failed to illustrate what major advantage of the current treatment compared with the conventional approach. A lot of the writing focused on the treatment procedures and I'd like to have a more indepth discussion. I'd suggest the authors to revise the manuscript as suggested.

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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: Taiwan

Manuscript submission date: 2023-03-22

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-04-06 08:01

Reviewer performed review: 2023-04-06 09:00

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
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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

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 "orthodontics" could be added in my opinion. Introduction. This section should be implemented explaining to a non-orthodontic reader the meaning of malocclusion, Second class, the materials usually used, and some general details. A couple of paragraphs are needed. Case Presentation. Authors stated "Pretreatment facial photographs showed a convex profile and shallow mentolabial sulcus.[...] telerradiography [...] panoramic radiograph". For each machinery used, please add details about commercial name manufacturer, City and State. Case Presentation. Authors stated "The maxillary midline was coincident with the facial midline, and the mandibular midline demonstrated a right deviation of 1.5 mm". Please detail how this measure was performed. Case Presentation. Please add details about all software used, version, Manufacturer, City and State. Case Presentation. Authors stated "Intraoral photographs showed bilateral angle class II, division 1 malocclusion.". Please detail how this diagnosis was performed. Case Presentation.

Authors stated “Cephalometric analysis demonstrated a skeletal class II malocclusion”. Please add details about cephalometric landmarks chosen along with reference. Case Presentation. Figure 1. Please enlarge the photographs in order to see details Case Presentation. Figure 2. Teleradiography is shown but cephalometric tracing is missing. Please add cephalometric tracing. Treatment progress. Authors stated “Initial leveling progressed over the bimaxillary arch with 0.016-inch × 0.022-inch ISW. [...] A 100-gf Ti-Ni closed-coil spring was used for canine retraction”. For each material tested, please add details about commercial name manufacturer, City and State. Case Presentation. Figure 7. Teleradiography is shown but cephalometric tracing is missing. Please add cephalometric tracing. Additionally, final panoramic radiograph is missing. Discussion. Authors stated “To avoid the buccal flaring effect of anterior teeth, we applied an active tie-back mesial to the first molars using a crimpable hook and elastic chain”. Please add a paragraph concerning the treatment alternatives. It could be added that “The treatment has been completed without the use of miniscrews, thus avoiding risks of root injuries (Root Injury During Interradicular Insertion is the most Common Complication Associated with Orthodontic Miniscrews. Montasser, M.A., Scribante, A. Journal of Evidence-Based Dental Practice, 2022, 22(1), 101688), failure (Miniscrews for orthodontic anchorage: analysis of risk factors correlated with the progressive susceptibility to failure. Yilin Xin, Yeke Wu, Chenjou Chen, Chen Wang et al. Am J Orthod Dentofacial Orthop. 2022 Oct;162(4):e192-e202) or fracture (Failure load and stress analysis of orthodontic miniscrews with different transmucosal collar diameter. Sfondrini MF, Gandini P, Alcozer R, Vallittu PK, Scribante A. J Mech Behav Biomed Mater. 2018 Nov;87:132-137.)”. These important concerns should be added to Discussion section. Discussion. Please elongate a bit this section. Discussion. Please add a paragraph showing the limitations of the present report. Discussion. Provide a general interpretation of the results in the context of other evidence, and implications for future



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Group**

7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA
Telephone: +1-925-399-1568
E-mail: bpgoffice@wjgnet.com
<https://www.wjgnet.com>

research. References. Some references are quite old (1990;1986;1977;1992;1994;1994;1998;1988;1983;1960;1997). If possible, please switch with some more modern research. Some recent studies have been suggested in the sections above.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Manuscript submission date: 2023-03-22

Reviewer chosen by: Ji-Hong Liu

Reviewer accepted review: 2023-04-25 07:14

Reviewer performed review: 2023-04-25 07:18

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
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statements

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

SPECIFIC COMMENTS TO AUTHORS

All questions have been answered. Thank you