

## PEER-REVIEW REPORT

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

**Manuscript NO:** 79542

**Title:** Rescuing “Hopeless” Avulsed Teeth using Autologous Platelet-rich Fibrin following Delayed Reimplantation: Two Case Reports

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

**Peer-review model:** Single blind

**Reviewer’s code:** 06385399

**Position:** Peer Reviewer

**Academic degree:** MD, MMed

**Professional title:** Attending Doctor, Doctor, Lecturer, Researcher

**Reviewer’s Country/Territory:** Tanzania

**Author’s Country/Territory:** China

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**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-09-27 21:50

**Reviewer performed review:** 2022-10-09 18:43

**Review time:** 11 Days and 20 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 Grade E: Do not publish
Judgment by peer reviewers	Does this manuscript meet the code of ethics standards? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Does this manuscript have important novelty? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Does this manuscript have important creativity or innovation?

	<input type="checkbox"/> [J31] Yes <input type="checkbox"/> [J30] No Does this manuscript use reliable research methods? <input type="checkbox"/> [J41] Yes <input type="checkbox"/> [J40] No Are the manuscript-accompanying data and figures authentic? <input type="checkbox"/> [J51] Yes <input type="checkbox"/> [J50] No Does this manuscript make scientifically significant conclusions? <input type="checkbox"/> [J61] Yes <input type="checkbox"/> [J60] No
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> [Y] 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"/> [Y] Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input checked="" type="checkbox"/> [Y] Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> [Y] Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> [Y] No

## SPECIFIC COMMENTS TO AUTHORS

General comments: This manuscript describes an important area of trauma and its management using PRF, whose outcomes can affect patients both physically and psychologically. The technique employed in the treatment of teeth avulsion in the two cases reported is informative and can be interesting for the readers of the journal. It show-cases potential management options. However, for it to be better the authors need to go through this manuscript again and check minor typographical errors, language structure, and spelling issues. Some specific suggestions are provided in the sections below.

1 Title: Comment: The reviewer suggests rephrasing the title to: Rescue of “Hopeless” Avulsed Teeth using Autologous Platelet-Rich-Fibrin following Delayed Reimplantation: Two Cases Report

2 Abstract. Does the abstract summarize and reflect the work described in the manuscript? Comment: CASE SUMMARIES: The



**Baishideng  
Publishing  
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>

introductory sentence of case 1 is more comprehensive if phrased: “In case 1, a 14-year-old boy fell and knocked out his left upper front tooth 18 hours prior to his arrival to the department” The Introductory sentence of case 2 should read: In case 2, a 17-year-old boy fell 2 hours prior to his presentation to the hospital, and had his upper front tooth completely knocked out of the alveolar socket. Last line of the summary should read: In addition to the avulsed teeth, the other injured teeth were treated using corresponding conventional treatment methods. 5 Core tip. Comment: Check spelling of platelet-rich fibrin 6 Introduction. Comments: Reference number 3 could not be found in available publications The paragraph after reference 5 had run-on sentences, it can better be re-written as: Unfortunately, in most cases, an avulsed tooth is kept out of the alveolar socket for a significantly long time or is stored under improper conditions. Eventually, these contribute to periodontal ligament cell necrosis and result into ankylosis and replacement resorption of the tooth root after reimplantation. Findings of a study are reported in the paragraph that follows reference 15, was this study published? If so, it should be included in the references. Also, check typos, spelling errors and structures of sentences 11 References. Comment: Some references need review eg number 3.

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**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, PhD

**Professional title:** Assistant Professor

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

**Author’s Country/Territory:** China

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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
Judgment by peer reviewers	Does this manuscript meet the code of ethics standards? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Does this manuscript have important novelty? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Does this manuscript have important creativity or innovation?

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<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" type="checkbox"/> [Y] 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"/> [Y] Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> [Y] No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> [Y] Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> [Y] No

## SPECIFIC COMMENTS TO AUTHORS

A review report of the manuscript titled "Rescue of Hopeless Avulsed Teeth with Autologous Platelet-rich fibrin After Delayed Reimplantation 12-Month Follow-Up: Two Cases Report". Authors of current paper showed a possible benefits of autologous platelet-rich fibrin (PRF) as a new healing opportunity for avulsed teeth. Here are my concerns, questions and recommendations: 1. In the Abstract after immediately the background authors should present the aim of the study more clearly. 2. I have a serious concerns regarding the English. Sentences need major revision. Just for example "In case 2, a 17-year-old boy fell down 2 hours ago, with his left upper front tooth being completely out of the alveolar socket". What does it mean, that boy fell down 2 hours ago? Maybe authors need to write that after 2 hours the boy was hospitalized or something else? What mean left upper front toot? Maybe left lateral incisor? 3.

Regarding tooth root external resorption type and possible treatment authors should add the following paper: Heboyan AG, Avetisyan AA, Margaryan MM, et al. Rare clinical case of tooth root external resorption as a delayed post-traumatic complication. The New Armenian Medical Journal 2018; 12: 93–98. 4. Authors should include more recent studies in the Discussion section, here is one recommendation: Heboyan A, Avetisyan A, Karobari MI, et al. Tooth root resorption: A review. Science Progress. 2022;105(3). doi:10.1177/00368504221109217 5. In the chief complaints, case 1: how much time was passed after trauma, when 14-year-old boy applied to clinic? Moreover, I could not understand what was the chief complaint of patients when applied to clinic? I think that at least they could have a pain (can be hemorrhage etc), but there is no any information regarding this. 6. Why the root canal therapy of the teeth 11 and 21 were started 2 weeks after the first visit 7. I recommend authors to expand the clinical case presentation adding more information about all methods, techniques, that were used. Also all products and should be added with manufacturers and country. 8. In the Discussion section, possible limitations should also need to be added and future research suggestions should be formulated.

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**Peer-review model:** Single blind

**Reviewer’s code:** 05234412

**Position:** Peer Reviewer

**Academic degree:** MDS

**Professional title:** Reader (Associate Professor)

**Reviewer’s Country/Territory:** India

**Author’s Country/Territory:** China

**Manuscript submission date:** 2022-09-04

**Reviewer chosen by:** Dong-Mei Wang

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**Reviewer performed review:** 2022-11-10 17:07

**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
Judgment by peer reviewers	Does this manuscript meet the code of ethics standards? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Does this manuscript have important novelty? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Does this manuscript have important creativity or innovation?



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<b>Language quality</b>	<input type="checkbox"/> <b>Y</b> Grade A: Priority publishing <input 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"/> <b>Y</b> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input type="checkbox"/> <b>Y</b> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input type="checkbox"/> <b>Y</b> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input type="checkbox"/> <b>Y</b> No

## SPECIFIC COMMENTS TO AUTHORS

Good Case Report



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**Reviewer’s code:** 05685534

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**Academic degree:** PhD

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Judgment by peer reviewers	Does this manuscript meet the code of ethics standards? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Does this manuscript have important novelty? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Does this manuscript have important creativity or innovation?

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<b>Language quality</b>	<input checked="" type="checkbox"/> [Y] Grade A: Priority publishing <input 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"/> [Y] Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input checked="" type="checkbox"/> [Y] Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> [Y] Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> [Y] No

## SPECIFIC COMMENTS TO AUTHORS

1. It has been reported in the literature that periodontal healing can be achieved if the avulsed tooth is reimplanted within 5 minutes. If reimplantation is delayed for more than 1 hour after avulsion, then complete necrosis of the injured periodontal ligament tissue is expected [18]. your cases were avulsed for 18 and 2 hours do you have evidences that PDL could be vital in a contaminated environment and regain its vitality by PRF   2. all of the available references   including your reference did not include avulsed teeth with the PDL totally lost ( did not mention the time and condition of reimplantation)   3. Therefore, we used PRF together with replantation to reduce the probability of root resorption. (what is the mechanism   behind that)   4, it is not clear if the root surface obtain some treatment to get rid of necrotic periodontal tissues   5. These growth factors increase the proliferation and periodontal differentiation of target



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Publishing  
Group**

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

cells and further promote periodontal healing of avulsed teeth[15]. we do have debate in the literature regarding the effect of release of such group of GF together if their is an antagonistic or synergistic or no actions and if these concentrations are stimulatory 6. Previous studies have shown that PRF can inhibit the osteogenic differentiation of periodontal ligament stem cells (PDLSCs) in vitro, which might contribute to reducing the possibility of ankylosis. please mention the suggested mechanism 7. We reason that this was related to highly aggregated leukocytes in the PRF, which may play anti-inflammatory and immunoregulatory roles to reduce inflammatory root resorption [15,29,30]. but you are not using L-PRF this explanation unrelated

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

**Peer-review model:** Single blind

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**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Associate Professor

**Reviewer’s Country/Territory:** Italy

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Judgment by peer reviewers	Does this manuscript meet the code of ethics standards? <input checked="" type="radio"/> Yes <input type="radio"/> No Does this manuscript have important novelty? <input checked="" type="radio"/> Yes <input type="radio"/> No Does this manuscript have important creativity or innovation?

	<input type="checkbox"/> [J31] Yes <input type="checkbox"/> [J30] No Does this manuscript use reliable research methods? <input type="checkbox"/> [J41] Yes <input type="checkbox"/> [J40] No Are the manuscript-accompanying data and figures authentic? <input type="checkbox"/> [J51] Yes <input type="checkbox"/> [J50] No Does this manuscript make scientifically significant conclusions? <input type="checkbox"/> [J61] Yes <input type="checkbox"/> [J60] No
<b>Language quality</b>	<input type="checkbox"/> [Y] Grade A: Priority publishing <input 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"/> [Y] Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input type="checkbox"/> [Y] Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input type="checkbox"/> [Y] Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input type="checkbox"/> [Y] No

## SPECIFIC COMMENTS TO AUTHORS

The paper is very interesting, well written. Images are adequate and very clear. The paper can be considered for publication after minor revisions, in particular some topics need to be addressed: 1) Which is the role of orthodontics in this cases? Please cite DOI 10.1177/1721727X1201000208 2) Which is the role of implantology without grafting? You should describe also a scale of evaluation and possible application in systemic (e.g. diabetes) patients. So you should cite DOI10.3390/ijerph191811735, DOI10.3390/app12136729, DOI10.3390/ijerph19095139 and DOI10.23805/JO.2018.10.04.04

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

**Peer-review model:** Single blind

**Reviewer's code:** 05235011

**Position:** Peer Reviewer

**Academic degree:** MDS, MHSc

**Professional title:** Reader (Associate Professor)

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

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Judgment by peer reviewers	Does this manuscript meet the code of ethics standards? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Does this manuscript have important novelty? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Does this manuscript have important creativity or innovation?

	<p><input type="checkbox"/>[31] Yes   <input type="checkbox"/>[30] No</p> <p>Does this manuscript use reliable research methods?</p> <p><input type="checkbox"/>[41] Yes   <input type="checkbox"/>[40] No</p> <p>Are the manuscript-accompanying data and figures authentic?</p> <p><input type="checkbox"/>[51] Yes   <input type="checkbox"/>[50] No</p> <p>Does this manuscript make scientifically significant conclusions?</p> <p><input type="checkbox"/>[61] Yes   <input type="checkbox"/>[60] No</p>
<b>Language quality</b>	<p><input type="checkbox"/> Grade A: Priority publishing   <input type="checkbox"/>[Y] Grade B: Minor language polishing</p> <p><input type="checkbox"/> Grade C: A great deal of language polishing   <input type="checkbox"/> Grade D: Rejection</p>
<b>Conclusion</b>	<p><input type="checkbox"/> Accept (High priority)   <input type="checkbox"/> Accept (General priority)</p> <p><input type="checkbox"/>[Y] Minor revision   <input type="checkbox"/> Major revision   <input type="checkbox"/> Rejection</p>
<b>Re-review</b>	<p><input type="checkbox"/> Yes   <input type="checkbox"/>[Y] No</p>
<b>Peer-reviewer statements</b>	<p>Peer-Review: <input type="checkbox"/>[Y] Anonymous   <input type="checkbox"/> Onymous</p> <p>Conflicts-of-Interest: <input type="checkbox"/> Yes   <input type="checkbox"/>[Y] No</p>

## SPECIFIC COMMENTS TO AUTHORS

Please do the correction according to the comments