

PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 57182

Title: Scoring system for poor limb perfusion after limb fracture in children

Reviewer's code: 02511796

Position: Editorial Board

Academic degree: FRACP, FRCP (C), FRCPA, MBBS

Professional title: Doctor, Senior Lecturer

Reviewer's Country/Territory: Australia

Author's Country/Territory: China

Manuscript submission date: 2020-05-28

Reviewer chosen by: Jin-Lei Wang

Reviewer accepted review: 2020-08-20 05:09

Reviewer performed review: 2020-08-24 23:27

Review time: 4 Days and 18 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 Grade E: Do not publish
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 type="checkbox"/> Major revision <input checked="" 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



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SPECIFIC COMMENTS TO AUTHORS

Thank you for the opportunity to review this case series. The title describes the topic well. The sample size is good for a retrospective study on this topic. The article requires general English Language review. The work is done well to discuss the topic. The key question is does this merit publication in this journal or presented as an abstract or a more general paediatric journal. I do not find the novelty of the topic will benefit readers unless the sample size is large. I have asked the editors to check this. If indeed this is one of the largest sample for paediatrics we are happy to review further.

PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 57182

Title: Scoring system for poor limb perfusion after limb fracture in children

Reviewer's code: 02445886

Position: Peer Reviewer

Academic degree: DSc, PhD

Professional title: Chief Doctor

Reviewer's Country/Territory: Russia

Author's Country/Territory: China

Manuscript submission date: 2020-05-28

Reviewer chosen by: Jin-Lei Wang

Reviewer accepted review: 2020-08-18 15:47

Reviewer performed review: 2020-08-28 11:36

Review time: 9 Days and 19 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 checked="" type="checkbox"/> 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
Conclusion	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input 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

This paper aimed to establish a simple grading scale for vascular status (GCVS) after limb fracture in children because assessment of the vascular status following limb fracture is important to evaluate the risk of compartment syndrome. A total of 161 patients were enrolled in the study: 85 in the normal perfusion group and 76 in the poor perfusion group. Among many factors, only three were significantly different in these groups, namely skin temperature of the affected limb, skin color, and range of motion of the affected limb. The results strongly suggest that in children undergoing surgery following limb fracture, a higher GCVS score is associated with a higher occurrence of poor limb perfusion. A prospective study is required for validation. This could help prevent compartment syndrome in children after limb fracture. The title reflects the main subject of the manuscript, the abstract and key words reflect the main topics of the entire text. The results are discussed in detail using 29 references. Figure and 4 tables are good quality and appropriately illustrative of the paper contents. The manuscript meet the requirements of biostatistics. I suggest that the article can be accepted for publication.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 57182

Title: Scoring system for poor limb perfusion after limb fracture in children

Reviewer's code: 02445886

Position: Peer Reviewer

Academic degree: DSc, PhD

Professional title: Chief Doctor

Reviewer's Country/Territory: Russia

Author's Country/Territory: China

Manuscript submission date: 2020-05-28

Reviewer chosen by: Pan Huang

Reviewer accepted review: 2020-09-25 12:34

Reviewer performed review: 2020-09-27 17:52

Review time: 2 Days and 5 Hours

Scientific quality	<input checked="" type="checkbox"/> Grade A: Excellent <input 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 checked="" type="checkbox"/> 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
Conclusion	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
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 topic of the article is the assessment of the vascular status following limb fracture in



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children. It is important to evaluate the risk of compartment syndrome, which is an emergency. The authors offered a simple and efficient grading scale system of limb perfusion in children undergoing surgery for limb fracture, the grading scale for vascular status (GCVS). A total of 161 patients were enrolled in the study: 85 in the normal perfusion group and 76 in the poor perfusion group. There was no significant difference in age, sex, BMI, ethnicity, cause of fracture, fixation, or site of fracture between the two groups. The grading scale was established based on three factors: skin temperature of the affected limb, skin color, and range of motion of the affected limb. A prospective study should be conducted for validation. The title reflects the main subject of the manuscript. the abstract and key words reflect the main topics of the entire text. The discussion is informative and helpful. Three tables capture information concisely and is illustrative of the paper contents. The article cites the relevant and important references and gives a complete picture of the topic. I suggest to accept the manuscript with no specific comments.