

PEER-REVIEW REPORT

Name of journal: *World Journal of Orthopedics*

Manuscript NO: 89033

Title: The effect of inflammatory response on joint function after hip fracture in elderly patients: A clinical study

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 01209736

Position: Peer Reviewer

Academic degree: FRCS

Professional title: Professor, Staff Physician, Surgeon

Reviewer's Country/Territory: Canada

Author's Country/Territory: China

Manuscript submission date: 2023-10-18

Reviewer chosen by: Jin-Lei Wang

Reviewer accepted review: 2024-01-08 16:07

Reviewer performed review: 2024-01-08 18:54

Review time: 2 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 Grade E: Do not publish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 checked="" type="checkbox"/> Grade B: Good <input 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 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

Many things that need improvement and clarification in this study. Please address each one of these important features. Introduction - Last sentence - As this is a weak epidemiologic study (retrospective, small, single center), you must say "may be" associated not that "are" associated with a poor outcome. This goes for the conclusion as well as this is only a pilot study that can now establish direction for further study. Methods - Gen info - There is no information about how "bad" this hip was before it was broken. Maybe there was a lot of osteoarthritis or rheumatoid in the joint. Maybe these would add to the level of inflammation at the time of surgery. Why was this information not captured? Discuss that point in the Methods and in the Discussion., - Inclusion - what about patients with obvious OA or rheumatoid or other inflammatory diseases that were admitted into the study? Blood markers may be up already - This is not discussed in the Methods or in the Discussion - please add. - Evaluation - hip fracture length of stay in our trauma hospital is now 1 week in our hospital. What was length of stay in your hospital - make clear and provide information as to when blood tests were done as it is not clear and then when they were reported upon - this is not clear either. - Data



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Collection - no information about previous OA or rheumatoid in patients. What about infections in patients? With this many patients - some would have had infection. Results - Remove laterality - this makes NO difference and is not published upon. - Table 1 - wording - should be Trochanteric not Intertrochanter - When was Fair or Excellent hip function determined - last day in hospital? Make clear. It says 4-6 days after injury. Graphs with outcomes scores would help. What made an Excellent versus a Fair result? Make clear. - Eliminate bleeding volumes from the WHOLE paper. It is too inaccurate to be reportable. What about internal bleeding and bruising? That is not recorded. What about blood thinners - that is not recorded. This is a major weakness of the paper relying upon bleeding volumes which are notoriously inaccurate. Eliminate. - Table 2 - Write out F. - Fair. E. Excellent. - There is no information about who among these patients had wound healing or infection problems. Add and make very clear as this should also correlate to the other numbers. How many infections? Discussion - Eliminate all reference to "bleeding volumes" including Tables as this is notoriously inaccurate. No description of how measured and it is very inaccurate - major weakness of the paper. - There is no discussion about those patients who had pre-existing OA or rheumatoid or infections from surgery. This is a major weakness of the study. There is no mention about patients who died as this group is often dead at a high rate postop. Conclusion - The conclusion is much too firm and should be softened as this is a poor epidemiologic study and so all this study can say is that more work need be done like prospective studies and that these markers "may" be important.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Reviewer chosen by: Huo Liu

Reviewer accepted review: 2024-02-19 20:14

Reviewer performed review: 2024-02-19 20:23

Review time: 1 Hour

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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements

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

SPECIFIC COMMENTS TO AUTHORS

Good revision; no deficiencies noted.