

PEER-REVIEW REPORT

Name of journal: *World Journal of Orthopedics*

Manuscript NO: 89734

Title: Safety of Tranexamic Acid in Surgically Treated Isolated Spine Trauma

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05395205

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Doctor, Postdoc

Reviewer's Country/Territory: China

Author's Country/Territory: United Kingdom

Manuscript submission date: 2023-11-10

Reviewer chosen by: Huo Liu

Reviewer accepted review: 2023-12-25 11:42

Reviewer performed review: 2023-12-25 12:04

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 Grade E: Do not publish
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 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 this study the authors investigated the safe of Tranexamic Acid (TXA) in the surgical management of isolated spine trauma over a six-month period across two major trauma centres in the UK. Some concerns are listed as below: The authors identified 67 patients: 26 (39%) received TXA, and 41 (61%) did not. It is not clear for readers how many patients were excluded in this study. Potential selection bias should not be ignored. Why both groups could be matched in terms of age, gender, ASA grade, and mechanism of injury in this study? Detailed statistical results should be provided (rather than 74% vs. 56%). Regarding the blood loss and the incidence of blood transfusion, the results may differ among surgeons. Dose-dependent effects of Tranexamic Acid (TXA) were lacking in this study. Apart from Tranexamic Acid (TXA), some may argue that other treatments (for example, aspirin) may also have potential effects on final results. Did you calculate the sample size? How about long-term safe effects?

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Peer-review model: Single blind

Reviewer's code: 05430684

Position: Peer Reviewer

Academic degree: MD, MSc, PhD

Professional title: Consultant Physician-Scientist, Research Fellow

Reviewer's Country/Territory: Greece

Author's Country/Territory: United Kingdom

Manuscript submission date: 2023-11-10

Reviewer chosen by: Huo Liu

Reviewer accepted review: 2023-12-25 19:46

Reviewer performed review: 2023-12-30 08:16

Review time: 4 Days and 12 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
Novelty 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 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input type="checkbox"/> Anonymous <input checked="" type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

I have studied carefully the manuscript entitled "Safety of Tranexamic Acid in Surgically Treated Isolated Spine Trauma". The manuscript refers to a six-month multicenter, prospective, observational study concerning isolated spine trauma necessitating surgical intervention. The study has some definite innate limitations, mainly focusing on the small sample size and the comparability between groups. However, as the topic is of interest for the specialized readership, and the nature of the study is prospective, the authors could possibly try ameliorating the manuscript through assessing the following issues: Major issues

1. The authors are kindly suggested to comment on the sample size by adding the pre-specified power of the study.
2. The authors are kindly suggested to explicitly report the extent of the missing values and clarify if they are MCAR, MAR, or MNAR in order to support their decision to simply exclude patients and not e.g. perform data imputation.
3. The authors are kindly proposed to handle intraoperative blood loss as a continuous variable and not as an ordinal one in an effort to achieve the best statistical power possible.
4. Did the authors notice any bias attributable to the patients?

orogin? The authors are welcome to perform a comparison between the two centers implicated in the study. 5. The authors are kindly suggested to elaborate a Cox-regression model evaluating hospitalization duration (admitance to discharge) using TXA and blood loss as independent variables. 6. All statistical tests used are parametric. The authors are kindly requested to justify their choice by adding information regarding at least normality and homogeneity of variance. Minor issues 1. The authors are kindly asked to report references in the proper format.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Reviewer's code: 05430684

Position: Peer Reviewer

Academic degree: MD, MSc, PhD

Professional title: Consultant Physician-Scientist, Research Fellow

Reviewer's Country/Territory: Greece

Author's Country/Territory: United Kingdom

Manuscript submission date: 2023-11-10

Reviewer chosen by: Han Zhang

Reviewer accepted review: 2024-03-12 07:54

Reviewer performed review: 2024-03-12 10:56

Review time: 3 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 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



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SPECIFIC COMMENTS TO AUTHORS

I have carefully studied the manuscript entitled "Safety of Tranexamic Acid in Surgically Treated Isolated Spine Trauma" by Zahra W. et al. The authors have successfully responded to every query raised during the review process. The quality of the manuscript has been ameliorated after the revision performed. I have no further comments/issues.