



PEER-REVIEW REPORT

Name of journal: *World Journal of Orthopedics*

Manuscript NO: 76080

Title: Association between tourniquet use and intraoperative blood loss during below-knee amputation

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05329275

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Italy

Author's Country/Territory: United States

Manuscript submission date: 2022-02-28

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-03-09 10:14

Reviewer performed review: 2022-03-09 10:54

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 Grade E: Do not publish
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



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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
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SPECIFIC COMMENTS TO AUTHORS

Thank you for giving me the opportunity to review this work. The paper concern the use of the tourniquet in orthopedic patients undergoing amputation. The work is interesting and provides clear guidance on the management of this type of patient / intervention. Unfortunately, however, I find some shortcomings in the study protocol. - Part of the patients underwent surgery due to an infection. Of what nature? Were they vascular or diabetic patients? - Why was the presence of peripheral vascular disease not taken into consideration? - Pharmacological therapies (especially anticoagulants and antiplatelet agents) why have they not been taken into consideration? - what are the variables used in the multivariate?



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Peer-review model: Single blind

Reviewer's code: 05571715

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Academic Fellow, Associate Chief Physician, Doctor, Surgeon

Reviewer's Country/Territory: China

Author's Country/Territory: United States

Manuscript submission date: 2022-02-28

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-03-20 01:22

Reviewer performed review: 2022-03-25 13:19

Review time: 5 Days and 11 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 checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No



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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
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SPECIFIC COMMENTS TO AUTHORS

Thank you for the invitation! This study found that tourniquet use during BKA was associated with decreased calculated blood loss. However, the preoperative total blood volume is different with postoperative total blood volume in patients undergoing BKA. How did authors estimate the blood volume in amputated limb? Second, peri-operative total blood loss = intraoperative blood loss (visible) + postoperative hidden blood loss (invisible). To investigate the hidden blood loss seems to be more important in those patient population.



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Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 01467363

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Full Professor

Reviewer's Country/Territory: Slovenia

Author's Country/Territory: United States

Manuscript submission date: 2022-02-28

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-03-20 14:15

Reviewer performed review: 2022-03-26 16:58

Review time: 6 Days and 2 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 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
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

Title accurately reflects the topic and content of the paper. Abstract: is appropriate, structured, 288 words. Key words: 4 key words, define the content of the paper. Core tip: is appropriate, 49 words. Introduction: is informative, 409 words, the reader is acquainted with the known facts about different surgical methods of limb amputations. The reader is reminded of paucity of literature describing the association between tourniquet use and blood loss during below knee amputation in orthopaedic populations. The primary and secondary goals of the study are clearly stated. Materials and methods: informative, 641 words, the methodology is accurately described, including patient selection, time period and calculation formulas. Statistical analysis is also recorded in detail. Results: informative, 336 words, the results are further presented in tables and figures (Fig. 1, 2, tables 1, 2 and additional supplemental table). The presentation of the results is transparent and clear. Discussion: interesting, 613 words. The discussion is clear, the authors provide answers to the questions posed by the research, but also point out some limitations in the interpretation of these results (academic center, small sample size,...) Conclusion: short, 90 words, the authors summarize the key findings of the presented research. The key message of the research is that tourniquet use during below knee amputation is associated with decreased calculated intraoperative blood loss and recommend this procedure. References: 16, time period 1962 (Surgery) - 2017 (World J Orthop 2017), references are appropriate. Conflict of interest: the authors declared no conflict of interest. Study ethics: the study was approved by the Institutional Review Board (STUDY00020406). Opinion of the reviewer The contribution is interesting, the content is clearly written. I suggest to



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accept the manuscript after minor language corrections.