

PEER-REVIEW REPORT

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Title: Fibula pro-tibia vs standard locking plate fixation in an ankle fracture saw bone model

Reviewer's code: 03708686

Position: Peer Reviewer

Academic degree: MD

Professional title: Assistant Professor

Reviewer's Country/Territory: United States

Author's Country/Territory: United Kingdom

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Reviewer chosen by: Ya-Juan Ma

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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 Grade E: Do not publish
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 type="checkbox"/> Accept (General priority) <input checked="" 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



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SPECIFIC COMMENTS TO AUTHORS

This study evaluated the strength to failure of locking plate in a fibula pro-tibia construct versus standard locking plate fixation in an ankle fracture saw bone model. It has been found that the fibula pro-tibia locking plate construct demonstrates biomechanical superiority to standard locking plates. Generally, this is an interesting study. It found a new and relatively more stable fixation construct for the syndesmotic ankle fractures. However, there are a few concerns that need to be clarified: 1. There may not be similar between the saw bone and osteoporotic bone. 2. The Locking Plate in fibula pro-tibia Configuration may prevent micro moving for the syndesmosis. It probably needs to be removed before full weight bearing. 3. There are no talus and ankle joint for the biomechanical testing. They may influence the testing results.