

PEER-REVIEW REPORT

Name of journal: *World Journal of Orthopedics*

Manuscript NO: 64818

Title: Patient-specific instrumentation in total ankle arthroplasty

Provenance and peer review: Invited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03434046

Position: Peer Reviewer

Academic degree: PhD

Professional title: Research Scientist

Reviewer's Country/Territory: Pakistan

Author's Country/Territory: Italy

Manuscript submission date: 2021-02-23

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-06-27 12:18

Reviewer performed review: 2021-07-09 12:15

Review time: 11 Days and 23 Hours

Scientific quality	☐ Grade A: Excellent ☒ Grade B: Very good ☐ Grade C: Good ☐ Grade D: Fair ☐ Grade E: Do not publish
Language quality	☐ Grade A: Priority publishing ☒ Grade B: Minor language polishing ☐ Grade C: A great deal of language polishing ☐ Grade D: Rejection
Conclusion	☐ Accept (High priority) ☒ Accept (General priority) ☐ Minor revision ☐ Major revision ☐ Rejection
Re-review	☐ Yes ☒ No
Peer-reviewer	Peer-Review: ☒ Anonymous ☐ Onymous

statements

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

SPECIFIC COMMENTS TO AUTHORS

This review article highlighted the current literature on PSI in Total Ankle Arthroplasty, analyzing the current implants with PSI, templating and preoperative planning strategies, alignment and sizing, clinical outcomes, cost-analysis, and comparison with standard techniques. Total Ankle Arthroplasty outcomes have generally been less satisfactory compared to other arthroplasties. Preoperative planning using Patient-Specific Instrumentation (PSI) theoretically improves implant positioning and alignment. This review article is informative for the scientific community. The author needs to explain the limitation and drawbacks of current strategies in detail. There are few grammatical mistakes.