

PEER-REVIEW REPORT

Name of journal: *World Journal of Orthopedics*

Manuscript NO: 73695

Title: Preoperative and postoperative risk factors for periprosthetic joint infection in primary total hip arthroplasty: A 1-year experience

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05208471

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Netherlands

Author's Country/Territory: Italy

Manuscript submission date: 2021-12-24

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-12-25 12:33

Reviewer performed review: 2021-12-25 12:50

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 Grade E: Do not publish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 type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input checked="" 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
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SPECIFIC COMMENTS TO AUTHORS

Dear authors, thank you for the effort of evaluating the number of PJI in your hospital series. PJI is an important topic and more research about the subject is needed. That being said, there are a number of difficulties with the presented manuscript: - the number of infection cases is only 4 (which should be applauded because it is that low), which makes it impossible to draw any conclusion on the risk factors for infection. Rule of thumb for power analyses dictates about ten cases per included studied variable, which makes this study underpowered for even 1 variable, you included >15 variables. The study might improve by including over 5 years of patients, or combining numbers with multiple centers. - you have probably missed quite a number of infections due to problems with local follow-up. - you included both early and late infections, which have a different etiology. The latter probably doesn't have anything to do with your perioperative management. - the STROBE statement has only scarcely been followed throughout the manuscript. - you mention a significant result for the bearing type. This is incorrect as you would have expected these to be in that bearing type group as it consists of 90% of the patients. - your conclusion is spot on: you didn't find a higher risk for any variable, because it was so underpowered. This study doesn't add any new data or finding to the current body of evidence on PJI. - the study would greatly benefit from English text editing, as there are many language errors throughout.

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Reviewer's code: 03680791

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Associate Professor, Staff Physician

Reviewer's Country/Territory: Taiwan

Author's Country/Territory: Italy

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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
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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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Bearing surface and cement do have influence. The authors should have more discussions on these. For example, antibiotics loaded cement or not?