

Dear Editor-in-Chief, Dear Reviewers,

Thank you for taking the time to review our manuscript and give back thoughtful reviews. It gave us the chance to tackle the weaknesses of our paper and to improve its quality in all aspects.

The following changes have been made to the manuscript in accordance with both reviewers' comments:

Reviewer #1:

1. What is the novel of present review? Can authors giving the clarification since there is several establish lavage review in joint arthroplasty

Response: We thank the reviewer for this comment! The novelty of this review is that it is the first meta-analysis assessing the utility of pulse lavage in total joint arthroplasty as this was not done before. This is written in the introduction

2. Introduction just 3 paragraph and too short, please more elaborate it, especially regarding basic concept of total hip prosthesis and related explanation to clearly understanding.

Response: We thank the reviewer for this comment! We elaborated more in the introduction as requested.

3. Joint arthroplasty is as an effective intervention to relieve pain and improve joint function, please replace/add with relevant literature as follows:

- Hidayat, T.; Ismail, R.; Tauviquirrahman, M.; Saputra, E.; Ammarullah, M. I.; Lamura, M. D. P.; Bayuseno, A. P.; Jamari, J. Investigation of Mesh Model for a Finite Element Simulation of the Dual-Mobility Prosthetic Hip Joint. *Jurnal Tribologi* 2023, 38, 118–40.

- Ammarullah, M. I.; Hidayat, T.; Lamura, M. D. P.; Jamari, J. Relationship between Deformation and Running-in Wear on Hard- on-Hard Bearings from Metal, Ceramic, and Diamond Materials for Total Hip Prosthesis. *Jurnal Tribologi* 2023, 38, 69–81.

- Ammarullah, M. I.; Santoso, G.; Sugiharto, S.; Supriyono, T.; Kurdi, O.; Tauviquirrahman, M.; Winarni, T. I.; Jamari, J. Tresca Stress Study of CoCrMo-on-CoCrMo Bearings Based on Body Mass Index Using

2D Computational Model. *Jurnal Tribologi* 2022, 33, 31–8.

Response: We thank the reviewer for this comment! We added this to the introduction with the references as requested.

4. Please recheck if author already perfectly follow PRISMA 2020.

Response: We thank the reviewer for this comment! We rechecked the PRISMA 2020 guidelines.

5. Give the explanation in general, such as gait is the most common patient activity that have undergo joint arthroplasty. Encouraged to read and incorporated as follows: <https://doi.org/10.1016/j.heliyon.2022.e12050> ,

<https://doi.org/10.3390/biomedicines11030951> , <https://doi.org/10.3390/molecules14247554> ,

<https://doi.org/10.3390/su142013413> , and <https://doi.org/10.3390/molecules16093298>

Response: We thank the reviewer for this comment! We added these references in the manuscript.

6. For more broader discussion, explaining the role of computational simulation (in silico) to support surgery of total hip replacement, even in direct anterior approach and direct superior approach and incorporate relevant reference as follows: <https://doi.org/10.1038/s41598-023-30725-6> , <https://doi.org/10.3390/molecules12081241> ,

<https://doi.org/10.3390/jfb13020064> , <https://doi.org/10.3390/jfb12020038> , and

<https://doi.org/10.1016/j.matur.2022.02.055>

Response: We thank the reviewer for this comment! We incorporated these references into the manuscript.

7. Please include limitations of present review article.

Response: We thank the reviewer for this comment! Limitations are already present in the discussion prior to the conclusion.

8. the authors should proofread the work due to grammatical problems and linguistic style.

Response: We thank the reviewer for this comment! We proofread the manuscript as requested.

Editor:

(1) The abstract should be standardized: Background, aim, methods, results, and conclusion.

Response: We thank the editor for this comment! We modified the abstract as requested.

(2) Please add PMID and DOI numbers to your references. They are available at: <http://doi.crossref.org/simpleTextQuery>. If there are no PMID or DOI numbers, please provide the website.

Response: We thank the reviewer for this comment! We modified the references as requested.

(3) Authors are required to provide standard three-line tables, that is, only the top line, bottom line, and column line are displayed, while other table lines are hidden. The contents of each cell in the table should conform to the editing specifications, and the lines of each row or column of the table should be aligned. Do not use carriage returns or spaces to replace lines or vertical lines and do not segment cell content.

Response: We thank the reviewer for this comment! We modified the table as requested.

The manuscript's new version was uploaded along with this letter. All changes made to the manuscript or the table are highlighted in yellow for better detection.

On behalf of all the co-authors,

We thank you again for reviewing our manuscript and remain at your disposal for any further inquiries.