

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Stem Cells*

**Manuscript NO:** 88696

**Title:** Mid-term outcomes of microfragmented adipose tissue plus arthroscopic surgery for knee osteoarthritis: A randomized, active-control, multicenter clinical trial

**Provenance and peer review:** Unsolicited manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 05213310

**Position:** Editorial Board

**Academic degree:** PhD

**Professional title:** Adjunct Professor, Full Professor

**Reviewer's Country/Territory:** Saudi Arabia

**Author's Country/Territory:** China

**Manuscript submission date:** 2023-10-05

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2023-10-05 19:43

**Reviewer performed review:** 2023-10-08 09:57

**Review time:** 2 Days and 14 Hours

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 Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

<b>Scientific significance of the conclusion in this manuscript</b>	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## SPECIFIC COMMENTS TO AUTHORS

Dear Author(s), I appreciate your efforts in writing this paper; nonetheless, I would like you to make the following minor adjustments to improve the quality of your post:

1. Changing the title of the paper to reflect the present study's objectives.
2. The results portion of the study abstract must give a quick overview of the present research's most important findings.
3. It is not advisable to begin the Materials and Methods section with the phrase "Study design and participants (Table 1)," which refers to Table 1. As a result, the line beginning "This was a prospective, randomized, controlled, single, etc." must appear before the table.
4. Is there a valid justification for utilizing the statistical method given in the Statistical Analysis section to examine the research data? Please include an explanation that supports what the authors have claimed in this section.
5. What are the author(s)' and the scientific community's perspectives on the current study's future directions? A supporting text must be added to this query in the last paragraph of the discussion section that presents the strengths and shortcomings of the current study.
6. Rewrite the conclusion section to clarify if the present research topic has been solved or whether the current study has met its objectives.
7. Some references

are quite old and must be replaced by new references from 2023 and five years before, as well as outdated references that no longer aid the study cause. Good luck,

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**Peer-review model:** Single blind

**Reviewer's code:** 03999237

**Position:** Peer Reviewer

**Academic degree:** MS

**Professional title:** Professor

**Reviewer's Country/Territory:** India

**Author's Country/Territory:** China

**Manuscript submission date:** 2023-10-05

**Reviewer chosen by:** Yu-Lu Chen

**Reviewer accepted review:** 2023-11-12 11:21

**Reviewer performed review:** 2023-11-20 17:51

**Review time:** 8 Days and 6 Hours

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
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
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<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## SPECIFIC COMMENTS TO AUTHORS

Well conducted study well written large number The methodology for both study groups - control and study - control had 3 injections of HA after 1 scopy debridement, and study group had 1 procedure for scopy debridement and mfat harvested form the abdomen The limitations regarding the possible effects of the differences in intervention and 3 injections at monthly intervals should be mentioned clearly in the limitations. Kindly update the references. Micro-fragmented adipose tissue (mFAT) associated with arthroscopic debridement provides functional improvement in knee osteoarthritis: a randomized controlled trial. Ulivi M, Meroni V, Viganò M, Colombini A, Lombardo MDM, Rossi N, Orlandini L, Messina C, Sconfienza LM, Peretti GM, Mangiavini L, de Girolamo L. Knee Surg Sports Traumatol Arthrosc. 2023 Aug;31(8):3079-3090. doi: 10.1007/s00167-022-07101-4. Epub 2022 Aug 30. PMID: 36040510 Platelet-Rich Plasma Versus Microfragmented Adipose Tissue for Knee Osteoarthritis: A Randomized Controlled Trial. Baria M, Pedroza A, Kaeding C, Durgam S, Duerr R, Flanigan D, Borchers J, Magnussen R. Orthop J Sports Med. 2022 Sep 16;10(9):23259671221120678. doi: 10.1177/23259671221120678. eCollection 2022 Sep. PMID: 36147791 The

discussion could be modified to highlight the same. The limitations have to be clearly mentioned and the recent references need to be discussed.