

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 59741

Title: Platelet-rich plasma vs bone marrow aspirate concentrate: An overview of mechanisms of action and orthobiologic synergistic effects

Reviewer's code: 05377710

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Associate Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Brazil

Manuscript submission date: 2020-09-26

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2020-10-13 04:21

Reviewer performed review: 2020-10-15 12:51

Review time: 2 Days and 8 Hours

Scientific quality	[<input checked="" type="radio"/>] Grade A: Excellent [<input type="radio"/>] Grade B: Very good [<input type="radio"/>] Grade C: Good [<input type="radio"/>] Grade D: Fair [<input type="radio"/>] Grade E: Do not publish
Language quality	[<input checked="" type="radio"/>] Grade A: Priority publishing [<input type="radio"/>] Grade B: Minor language polishing [<input type="radio"/>] Grade C: A great deal of language polishing [<input type="radio"/>] Grade D: Rejection
Conclusion	[<input checked="" type="radio"/>] Accept (High priority) [<input type="radio"/>] Accept (General priority) [<input type="radio"/>] Minor revision [<input type="radio"/>] Major revision [<input type="radio"/>] Rejection
Re-review	[<input checked="" type="radio"/>] Yes [<input type="radio"/>] No
Peer-reviewer statements	Peer-Review: [<input checked="" type="radio"/>] Anonymous [<input type="radio"/>] Onymous Conflicts-of-Interest: [<input type="radio"/>] Yes [<input checked="" type="radio"/>] No

SPECIFIC COMMENTS TO AUTHORS

This is an interesting review, and can be accepted. The following issues should be addressed: 1. There is no figure and table in the study. I suggest the author add 1 figure and at least 1 table 2. For the table, I suggest the author summary all trials registered in Clinicaltrial.gov on the Platelet-Rich Plasma versus Bone Marrow Aspirate Concentrate 3. The references are not right, please revise the reference style according to the guideline for author. 4. Although this is a review, the author should also provide the strategy of include studies. Please add a paragraph about the search studies for the review. Please read the following study and cite it: Yao X, Florez ID, Zhang P, Zhang C, Zhang Y, Wang C, Liu X, Nie X, Wei B, Ghert MA. Clinical research methods for treatment, diagnosis, prognosis, etiology, screening, and prevention: A narrative review. J Evid Based Med. 2020 May;13(2):130-136. doi: 10.1111/jebm.12384. Epub 2020 May 22. PMID: 32445266. 5. The author only cited 80 references; I suggest the author cite 20 more references to 100 references.

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 59741

Title: Platelet-rich plasma vs bone marrow aspirate concentrate: An overview of mechanisms of action and orthobiologic synergistic effects

Reviewer's code: 00410685

Position: Editorial Board

Academic degree: DPhil, MD, PhD

Professional title: Associate Professor

Reviewer's Country/Territory: Italy

Author's Country/Territory: Brazil

Manuscript submission date: 2020-09-26

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2020-10-15 11:10

Reviewer performed review: 2020-10-27 06:50

Review time: 11 Days and 19 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input 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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" 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 is a revision of the current literature by experts in the field that summarize the state-of-the art on the use of PRP, BMA and BMAC in musculoskeletal disorders. I found the work easy to follow providing the essential information although, given the scientific evidence, can not reach to a conclusive evidence in favour of a specific treatment reflecting the limit of the currently available literature. Available data seems to be reported and properly commented.