

## PEER-REVIEW REPORT

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

**Manuscript NO:** 91095

**Title:** Mesenchymal stem cells and their derived exosomes for the treatment of COVID-19

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

**Peer-review model:** Single blind

**Reviewer's code:** 05431771

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Academic Editor, Assistant Professor

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

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

**Manuscript submission date:** 2023-12-21

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2024-01-26 08:45

**Reviewer performed review:** 2024-02-01 20:41

**Review time:** 6 Days and 11 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 Grade E: Do not publish
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 checked="" type="checkbox"/> Grade B: Good <input 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 type="checkbox"/> Anonymous <input checked="" type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## SPECIFIC COMMENTS TO AUTHORS

In the paragraph: MSCs-Exo also enhanced macrophage phagocytosis and TNF- $\alpha$  and IL-8 secretion, thereby ameliorating LPS-induced lung injury in mice[67]. Please correct to MSCs-Exo also enhanced macrophage phagocytosis and significantly diminished TNF- $\alpha$  and IL-8 secretion, thereby ameliorating LPS-induced lung injury in mice[67] to cope with the cited reference. In the paragraph: Studies have shown that patients show significant signs of recovery in radiologic parameters on lung computed tomography scans after 60 days of MSCs infusion, with significant subsidence of turbidity in the lungs. One patient presented with acute renal failure, pulmonary edema, and bilateral multiple effusions, and the turbidity associated with COVID-19 was significantly reduced after treatment[94]. Please be noticed that the cited reference by Yao et al. has nothing to relate with your citation. Furthermore, please add more citations to cope with your suggestion at this paragraph. In the paragraph: A clinical study by Chu[96] et al. demonstrated that a mildly ill patient's first chest CT examination revealed an isolated nodule outside the lower lobe of the left lung after MSCs-Exo nebulization treatment. Please check the reference as it doesn't belong to Chu and it doesn't cope with your

citation. Please check all the other references. Finally, the discussion of the "various therapeutic approaches for COVID-19" could be enriched by considering the Egyptian and African immune-modulatory approach.