



PEER-REVIEW REPORT

Name of journal: World Journal of Transplantation

Manuscript NO: 64683

Title: MAY MESENCHYMAL STEM CELL TRANSPLANTATION BE A SOLUTION FOR COVID-19 INDUCED CYTOKINE STORM?

Reviewer's code: 05355546

Position: Peer Reviewer

Academic degree: MD

Professional title: Associate Chief Physician

Reviewer's Country/Territory: China

Author's Country/Territory: Turkey

Manuscript submission date: 2021-02-22

Reviewer chosen by: AI Technique

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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 Grade E: Do not publish
Language quality	<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
Conclusion	<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
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



**Baishideng
Publishing
Group**

7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA
Telephone: +1-925-399-1568
E-mail: bpgoffice@wjgnet.com
https://www.wjgnet.com

SPECIFIC COMMENTS TO AUTHORS

In this review, the authors discussed the benefits of mesenchymal stem cells (MSCs) on severe or critically ill COVID-19 patients, pathogenesis and immuno-pathogenesis of COVID-19, provide hints for the treatment of COVID-19. The quality of this manuscript is good, However, the manuscript requires a number of fixes: 1. In the paragraph "BENEFITS OF MSC TRANSPLANTATION AND PROMISING STUDIES", the authors also discussed the mechanisms of MSC transplantation, and discussed the limitations of previous studies, but few promising studies were included in this paragraph, so more promising studies should be discussed here, otherwise the title may be changed to "BENEFITS AND MECHANISMS OF MSC TRANSPLANTATION AND STUDIES LIMITATIONS"?

- **Response to comment 1: Changed, as requested**

2. In the paragraph "INTRODUCTION TO COVID-19 PATHOGENESIS", the authors also discussed the present therapies for COVID-19, should the title be "INTRODUCTION TO COVID-19 PATHOGENESIS AND PRESENT THERAPIES"?

- **Response to comment 2: Corrected, as requested**

3. In the paragraph "PITFALLS OF THE MSC TRANSPLANTATION", the authors discussed the MSC dose, infusion rate and best sources for COVID-19 treatment, this part does not correspond to the title of the paragraph.

- **Response to comment 3: Changed, as requested**