



PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 56811

Title: Mesenchymal stromal cells as potential immunomodulatory players in severe acute respiratory distress syndrome induced by SARS-CoV-2 infection

Reviewer's code: 05220432

Position: Editor-in-Chief

Academic degree: MD, PhD

Professional title: Senior Scientist

Reviewer's Country/Territory: United States

Author's Country/Territory: Greece

Manuscript submission date: 2020-05-15

Reviewer chosen by: AI Technique

Reviewer accepted review: 2020-05-15 20:12

Reviewer performed review: 2020-05-15 20:38

Review time: 1 Hour

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 Grade E: Do not publish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 type="checkbox"/> Grade B: Minor language polishing <input checked="" 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 type="checkbox"/> Minor revision <input checked="" 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



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SPECIFIC COMMENTS TO AUTHORS

Comments about review "Mesenchymal Stromal Cells as potential immunomodulatory players in severe acute respiratory distress syndrome induced by SARS-CoV-2 infection" It is good review however needs further work to advance the field appropriately. This review links the possibility of using Mesenchymal Stromal Cells for coronavirus. Could be improved further by focusing the association of MSC and coronavirus. the author claims that MSCs should be used as potential therapeutic agents in patients suffering from COVID-19. Could you please elaborate which stage of COVID-19, and what are your recommendation for high titer of virus. How many MSC should be needed. Is there any advantage of using one source of MSC over the other such as using bone marrow MSC over umbilical cord MSC. would be great if include that what are current treatment options for COVID-19 as mentioned in "Novel Coronavirus (COVID-19) Treatment Options" and then explain why MSC should be comparable to that list or superior than the current treatments. Relate why COVID-19 is important issue as mentioned in "The Pandemic of Novel Coronavirus Disease 2019 (COVID-19): Need for an Immediate Action" The value of this paper is that MSCs can be applied in COVID-19 as co-therapy as MSC usually migrate to lungs.



PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 56811

Title: Mesenchymal stromal cells as potential immunomodulatory players in severe acute respiratory distress syndrome induced by SARS-CoV-2 infection

Reviewer's code: 02559247

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Professor, Senior Researcher

Reviewer's Country/Territory: Italy

Author's Country/Territory: Greece

Manuscript submission date: 2020-05-15

Reviewer chosen by: AI Technique

Reviewer accepted review: 2020-05-26 15:28

Reviewer performed review: 2020-05-26 17:48

Review time: 2 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" 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 type="checkbox"/> Minor revision <input checked="" 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



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SPECIFIC COMMENTS TO AUTHORS

The article is interesting but is not suitable in the present form. In particular the authors introduced briefly the potential role of adipose-derived stem cells (ASCs) in COVID-19 patients - correctly- but refer this to reference 24 -uncorrect- because the only articles published on this potential role of ASCs are the following: Adipose-derived stromal stem cells (ASCs) as a new regenerative immediate therapy combating coronavirus (COVID-19)-induced pneumonia. Gentile P, Sterodimas A. *Expert Opin Biol Ther.* 2020 Apr 29;1-6 and Adipose Stem Cells (ASCs) and Stromal Vascular Fraction (SVF) as a Potential Therapy in Combating (COVID-19)-Disease Pietro Gentile, Aris Sterodimas *Aging and disease.* 2020, 11 (3): 465-469. DOI: 10.14336/AD.2020.0422 and Rationale for the clinical use of adipose-derived mesenchymal stem cells for COVID-19 patients. Rogers CJ, Harman RJ, Bunnell BA, Schreiber MA, Xiang C, Wang FS, Santidrian AF, Minev BR. *J Transl Med.* 2020 May 18;18(1):203. doi: 10.1186/s12967-020-02380-2 Additionally the PRISMA flow, in agreement with guidelines of the journal was not reported. The article should report in the discussion section the potential role of adipose stem cells in COVID-19 patients, discussing also the in vivo and in vitro result of ASCs, previously obtained as safe and effective therapy, as the most important MSCs as following: doi: 10.1002/term.2139. doi: 10.1002/stem.2498 doi: 10.3390/ijms20143446 doi: 10.1093/asj/sjz292 doi: 10.3390/jcm8040504 doi: 10.3390/cells8030282 doi: 10.3390/ijms20215471 doi: 10.3390/jcm8060855 doi: 10.2217/rme-2017-0076 doi: 10.1097/01.scs.0000436746.21031.ba doi: 10.1155/2013/434191



RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Position: Editor-in-Chief

Academic degree: MD, PhD

Professional title: Senior Scientist

Reviewer's Country/Territory: United States

Author's Country/Territory: Greece

Manuscript submission date: 2020-05-15

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2020-06-29 21:04

Reviewer performed review: 2020-06-29 21:11

Review time: 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
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No more comments