Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 86127

Title: Amniotic membrane mesenchymal stromal cell-derived secretome in the treatment of acute ischemic stroke: a case report

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer’s code: 04861666

Position: Peer Reviewer

Academic degree: BSc, MSc, PhD

Professional title: Assistant Professor

Reviewer’s Country/Territory: India

Author’s Country/Territory: China

Manuscript submission date: 2023-06-01

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-07-05 03:50

Reviewer performed review: 2023-07-13 08:59

Review time: 8 Days and 5 Hours

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<th>Scientific quality</th>
<th>[ ] Grade A: Excellent</th>
<th>[ ] Grade B: Very good</th>
<th>[ ] Grade C: Good</th>
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<td>[ ] Grade D: Fair</td>
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<tr>
<th>Novelty of this manuscript</th>
<th>[ ] Grade A: Excellent</th>
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<th>Creativity or innovation of this manuscript</th>
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<td>[ ] Grade D: No creativity or innovation</td>
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### Scientific significance of the conclusion in this manuscript

- [ ] Grade A: Excellent
- [ ] Grade B: Good
- [Y] Grade C: Fair
- [ ] Grade D: No scientific significance

### Language quality

- [ ] Grade A: Priority publishing
- [ ] Grade B: Minor language polishing
- [ ] Grade C: A great deal of language polishing
- [ ] Grade D: Rejection

### Conclusion

- [ ] Accept (High priority)
- [ ] Accept (General priority)
- [Y] Minor revision
- [ ] Major revision
- [ ] Rejection

### Re-review

- [ ] Yes
- [Y] No

### Peer-reviewer statements

- Peer-Review: [ ] Anonymous
- [Y] Onymous

- Conflicts-of-Interest: [ ] Yes
- [Y] No

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**SPECIFIC COMMENTS TO AUTHORS**

Since there is no definite treatment option to restore stroke, in the current manuscript authors have evaluated beneficial effect of MSC-secretome in a 45-year-old female suffered an acute stroke, causing paralysis in the left upper and lower limbs. For that amniotic membrane MSCs-derived secretome (MSC-secretome) was intravenously transplanted to the patient at different time point. Authors found that there was significant clinical improvement in this patient by an increased frequency of Tregs after transplantation. This case study proves that intravenous administration of MSC-secretome potentially treats patients who suffer from acute ischemic stroke. It is nice initiative. Manuscript is written well. Comments:

1. Authors should include ethical approval details in manuscript under which this study was performed.
2. Include details about the culture medium used to culture MSCs.
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Title: Amniotic membrane mesenchymal stromal cell-derived secretome in the treatment of acute ischemic stroke: a case report

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer’s code: 05573866

Position: Peer Reviewer

Academic degree: MD

Professional title: Assistant Professor

Reviewer’s Country/Territory: Egypt

Author’s Country/Territory: China

Manuscript submission date: 2023-06-01

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-07-06 05:35

Reviewer performed review: 2023-07-14 19:14

Review time: 8 Days and 13 Hours

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SPECIFIC COMMENTS TO AUTHORS

In this study, the authors reported the first case of a study describing a patient suffering from stroke who was treated with four infusions of allogeneic MSC-secretome. The current is very interesting and well-structured. However, some questions need answer based on the following comments: Major correction 1) What was the rationale for collecting human placental samples from healthy, full-term, complicated pregnancy??, why complicated pregnancy?? 2) What were the types of complications? 3) Detailed information about the composition of the media that was used for culturing AM-MSCs?? 4) The optimal time point for early intervention is recommended in stroke to improve the survival of brain cells. Please justify the time selected for intravenous administration of stem cell-derived secretome? Minor correction: • The manuscript contains some typing errors needed to be corrected • No page number is present