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## PEER-REVIEW REPORT

**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

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 Grade E: Do not publish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 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
<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 type="checkbox"/> Yes <input checked="" 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

Since there is no definite treatment option to restore stroke, in the current manuscript authors have evaluated beneficial effect of MSC-secreatome 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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**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

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
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
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<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
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<b>Conclusion</b>	<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
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## 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