

PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 90317

Title: Allogeneic mesenchymal stem cells may be a viable treatment modality in cerebral palsy

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06221767

Position: Peer Reviewer

Academic degree: MD

Professional title: Researcher, Staff Physician

Reviewer's Country/Territory: United States

Author's Country/Territory: Turkey

Manuscript submission date: 2023-11-29

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-12-02 00:30

Reviewer performed review: 2023-12-08 03:32

Review time: 6 Days and 3 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 Grade E: Do not publish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
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

Scientific significance of the conclusion in this manuscript	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
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

SPECIFIC COMMENTS TO AUTHORS

See attached file.

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Title: Allogeneic mesenchymal stem cells may be a viable treatment modality in cerebral palsy

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06229302

Position: Peer Reviewer

Academic degree: PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: Romania

Author's Country/Territory: Turkey

Manuscript submission date: 2023-11-29

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-11-30 06:08

Reviewer performed review: 2023-12-08 10:36

Review time: 8 Days and 4 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
Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

Scientific significance of the conclusion in this manuscript	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
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

SPECIFIC COMMENTS TO AUTHORS

Thank you very much for the opportunity to review this interesting article about SCT in CP. Please find below the main issues: 1. Introduction: please provide some mechanism of action for this therapy for CP, in accordance with the literature. 2. Introduction: Please mention, if other cerebral pathologies could benefit from SCT 3. Introduction: Please mention the risk factors for SCT failure 4. Material and methods: You mentioned that "Four patients, aged between 1 to 4 diagnosed as CP with severe disability which is required wheelchair...", which for a 1-year old child is not surprising... Please reconsider a validated clinical evaluation scale for motor impairments in small children 5. Rehabilitation procedures: Which kind of procedures could be applied for an 1-year and 4-years old patient for an improvement in fine motor skills? Furthermore, could you perform exercises for postural control/stabilisation in an 1-year old child, which physiologically does not have this capacity? Please describe the rehabilitation procedures in detail with regard to the age of your patients and specific goals 6. Statistical analysis: A statistical analysis in a group of 4 patients could not be appropriate, even by using a non-parametric test. Please consider to present your results from the

light of a case series presentation 7. Discussion: Please consider the results from the perspective of one by one case-report presentation 8. General consideration: please consider the article as a case-report rather than a cohort prospective study 9. English Issues: there are some minor issues that should be addressed (i.e. sedoanalgesia, etc

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Peer-review model: Single blind

Reviewer's code: 06352857

Position: Peer Reviewer

Academic degree: PhD

Professional title: Physiotherapist, Researcher

Reviewer's Country/Territory: China

Author's Country/Territory: Turkey

Manuscript submission date: 2023-11-29

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-11-30 01:28

Reviewer performed review: 2023-12-08 15:03

Review time: 8 Days and 13 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
Novelty of this manuscript	<input checked="" type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
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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 type="checkbox"/> Yes <input checked="" 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

SPECIFIC COMMENTS TO AUTHORS

It is encouraging that stem cell therapy can be applied to clinical treatment, especially to cerebral palsy, a difficult-to-heal disease. I strongly agree that the purpose of this experiment is to apply stem cell therapy to clinical treatment. Although the results of this experiment seem to be pleasing, the presentation of the results of this study is poor due to the fact that this is an academic paper. First, the identification of UC-MSCs by flow cytometry was not presented. Cell differentiation data and results were also not presented. Second, the age difference between these four patients is relatively large. Generally speaking, the older a child with cerebral palsy is, the more difficult it is for him or her to undergo rehabilitation. Older children may cause the treatment to be less effective. I think that the four children in this experiment are more suitable for case report to be reported separately, due to the fact that the phenotypic heterogeneity of children with cerebral palsy is too large. Finally, I did not see stem cell therapy show a very convincing therapeutic effect in this experiment, due to the lack of a control group or valid statistics. The mere fact that the post-intervention assessment found that the patient's status had improved is not a sufficient indication that the stem cell therapy was

effective, due to the fact that the patients were also receiving other rehabilitative treatments at the same time. It is therefore unfortunate that this article in its current state is not suitable for publication unless the author makes significant changes.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Peer-review model: Single blind

Reviewer's code: 06229302

Position: Peer Reviewer

Academic degree: PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: Romania

Author's Country/Territory: Turkey

Manuscript submission date: 2023-11-29

Reviewer chosen by: Li Li

Reviewer accepted review: 2024-01-24 08:27

Reviewer performed review: 2024-01-26 13:52

Review time: 2 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
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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements

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

SPECIFIC COMMENTS TO AUTHORS

Many thanks for considering my recommandations