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PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 47103

Title: Stem cell treatment and cerebral palsy: Systemic review and meta-analysis

Reviewer's code: 03814168

Reviewer's country: Pakistan

Science editor: Jia-Ping Yan

Reviewer accepted review: 2019-03-15 03:28

Reviewer performed review: 2019-03-23 05:24

Review time: 8 Days and 1 Hour

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
[ ] Grade A: Excellent	[ ] Grade A: Priority publishing	[ ] Accept (High priority)	Peer-Review:
[ ] Grade B: Very good	[Y] Grade B: Minor language polishing	[ ] Accept (General priority)	[Y] Anonymous
[Y] Grade C: Good	[ ] Grade C: A great deal of language polishing	[Y] Minor revision	[ ] Onymous
[ ] Grade D: Fair	[ ] Grade D: Rejection	[ ] Major revision	Peer-reviewer's expertise on the topic of the manuscript:
[ ] Grade E: Do not publish		[ ] Rejection	[ ] Advanced
			[Y] General
			[ ] No expertise
			Conflicts-of-Interest:
			[ ] Yes
			[Y] No

SPECIFIC COMMENTS TO AUTHORS

Very basic information is provided in review about stem cells. Author report no specific markers for stem cells, however stem cells from different sources are well characterized and their markers are identified and accepted throughout the scientific community. Umbilical cord stem cells uses are only focused on the immunological disorder, though

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these cells are widely used in stem cells therapy. It will be better to provide more clinical use of these stem cells with emphasis on neurological disorders. Mesenchymal stem cells were reviewed under one heading, however MSCs have multiple sources like bone marrow, adipose tissue, and umbilical cord tissue, etc. All of these sources are reported for clinical use, authors should summarize the studies in a table. HSCs and EPC were discussed which have no relevance with the aim of the present study. Authors should develop a link of these cells with CP. https://clinicaltrials.gov, register the clinical trials, it will be better if author include the data from this database in the current manuscript. Author must report the minimum dose of stem cells transplantation in literature. Specially, the minimum effective dose of cells. Figure 1 and 5 are not referred anywhere in the text. Only 5 studies were included in the final analysis, which is very low number.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 47103

Title: Stem cell treatment and cerebral palsy: Systemic review and meta-analysis

Reviewer's code: 03712811

Reviewer's country: Italy

Science editor: Jia-Ping Yan

Reviewer accepted review: 2019-04-24 08:10

Reviewer performed review: 2019-04-26 08:53

Review time: 2 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
[ ] Grade A: Excellent	[Y] Grade A: Priority publishing	[ ] Accept (High priority)	Peer-Review:
[Y] Grade B: Very good	[ ] Grade B: Minor language polishing	[Y] Accept (General priority)	[Y] Anonymous
[ ] Grade C: Good	[ ] Grade C: A great deal of language polishing	[ ] Minor revision	[ ] Onymous
[ ] Grade D: Fair	[ ] Grade D: Rejection	[ ] Major revision	Peer-reviewer's expertise on the topic of the manuscript:
[ ] Grade E: Do not publish		[ ] Rejection	[ ] Advanced
			[Y] General
			[ ] No expertise
			Conflicts-of-Interest:
			[ ] Yes
			[Y] No

SPECIFIC COMMENTS TO AUTHORS

In this paper, submitted as a Systematic Review and Meta-Analysis study, the Authors have focused on the safety and efficacy of stem cell treatment of cerebral palsy (CP), the most severe motor disability ensuing from perinatal complications and resulting in life-long morbidities. The structure of the manuscript relies upon a systematic

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literature search on PubMed and Embase to find randomized controlled clinical trials (RCT) investigating the effect of stem cell transplantation in children with CP. After the review, the Authors performed a random-network meta-analysis focusing on the change in gross motor function, which was quantified using the gross motor function measure (GMFM). They calculated the standardized mean differences of the 6- and/or 12-month-outcome by the method of Cohen, quantifying the heterogeneity using the I-squared measure. The background presentation of the underlying issue is well designed, as it is the underpinning for the use (and associated description) of the various types and source for stem cells. The Meta-Analysis is rigorous, as are the Conclusions of study. The Discussion section is in keeping with the aims and findings from the meta-analysis approach.

INITIAL REVIEW OF THE MANUSCRIPT

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