



PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 54722

Title: Safety evaluation of menstrual blood-derived stromal cells transplantation for the treatment of intrauterine adhesion

Reviewer's code: 03017753

Position: Peer Reviewer

Academic degree: MD

Professional title: Associate Professor

Reviewer's Country/Territory: Netherlands

Author's Country/Territory: China

Manuscript submission date: 2020-02-24

Reviewer chosen by: AI Technique

Reviewer accepted review: 2020-02-25 03:36

Reviewer performed review: 2020-03-10 11:55

Review time: 14 Days and 8 Hours

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



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SPECIFIC COMMENTS TO AUTHORS

With the increasing frequency of intrauterine operation, the incidence of intrauterine adhesion is gradually increasing. However, for patients with severe intrauterine adhesion, conventional treatment methods, such as surgical isolation and hormone supplementation cannot achieve the desired therapeutic effect. Especially, it is difficult to improve the fertility in patients with intrauterine adhesion. Due to the advantages of strong proliferative ability, high genetic stability, chemotactic properties, and low immunogenetic effects, MSCs play an important role in the field of regenerative medicine. Recent studies have shown that MenSCs improved a variety of diseases, including type 1 diabetes, liver disease, premature ovarian failure, osteochondral defects, heart disease and cartilage damage. At present, the effectiveness of MenSCs in treating traumatic diseases has been confirmed. However, long-term observational data of clinical application of MenSCs is scarce, and systematic biosafety evaluation is still lacking. In this study, the authors investigated the biosafety of intrauterine transplantation of MenSCs to treat endometrial injury over acute, sub-chronic and chronic periods. The safety of MenSCs treatment for intrauterine adhesion model was systematically evaluated for toxicity, tumorigenicity and abnormal differentiation. 1. The title reflects the main subject of the manuscript. 2. The abstract summarizes and reflects the work described in the manuscript. The Aim should be listed from the background. 3. Methods are clear. Sprague-Dawley rats model are reasonable. 4. Results are clear, and very interesting. Tables require editing. Figure 1 should be re-provided. There are no Scale bar in the images. Please check and provide the primitive images with Scale bars. 5. Discussion is acceptable. 6. References are updated. 7. Minor editing is required for the manuscript.



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PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 54722

Title: Safety evaluation of menstrual blood-derived stromal cells transplantation for the treatment of intrauterine adhesion

Reviewer’s code: 03093156

Position: Peer Reviewer

Academic degree: N/A, BPharm, MD, PhD

Professional title: N/A, Professor, Senior Scientist

Reviewer’s Country/Territory: United States

Author’s Country/Territory: China

Manuscript submission date: 2020-02-24

Reviewer chosen by: AI Technique

Reviewer accepted review: 2020-02-24 10:24

Reviewer performed review: 2020-03-14 04:09

Review time: 18 Days and 17 Hours

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



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SPECIFIC COMMENTS TO AUTHORS

This study of MenSCs is very interesting. The design of the study is reasonable, and the results are good. Tables and figures are well display, however, the tables require editing. Some minor language polishing should be revised. Overall, the manuscript is well written, and can be accepted for publication after a minor revision.

INITIAL REVIEW OF THE MANUSCRIPT

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PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 54722

Title: Safety evaluation of menstrual blood-derived stromal cells transplantation for the treatment of intrauterine adhesion

Reviewer’s code: 03003965

Position: Peer Reviewer

Academic degree: FRCS, MD

Professional title: Assistant Technician, Associate Professor

Reviewer’s Country/Territory: United Kingdom

Author’s Country/Territory: China

Manuscript submission date: 2020-02-24

Reviewer chosen by: AI Technique

Reviewer accepted review: 2020-02-24 10:23

Reviewer performed review: 2020-03-14 04:30

Review time: 18 Days and 18 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
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<input type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer’s expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input checked="" type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input checked="" type="checkbox"/> Advanced
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SPECIFIC COMMENTS TO AUTHORS

MSC are adult stem cells that can be easily collected and cultured from tissues and organs. Compared with BMSCs and ADSCs, MenSCs have greater clinical application potential on the premise of similar efficacy. It is undeniable that MenSCs represent a new type of therapeutic stem cells. Many related treatment studies are still in the preclinical or phase 1 clinical trial phase. At present, the effectiveness of MenSCs in treating traumatic diseases has been confirmed. However, long-term observational data of clinical application of MenSCs is scarce, and systematic biosafety evaluation is still lacking. The authors investigated the biosafety of intrauterine transplantation of MenSCs in the treatment of endometrial injury. This study is very well designed. Methods are described in detail. Results are reasonable and interesting. Main text of the manuscript requires an editing. The tables and figures are good. Minor language polishing should be corrected.

INITIAL REVIEW OF THE MANUSCRIPT

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[Y] No