



**Baishideng
Publishing
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PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 55027

Title: How Old is Too Old? In vivo engraftment of human peripheral blood stem cells cryopreserved for up to 17 years - implications for clinical transplantation and stability programs

Reviewer's code: 02726701

Position: Editorial Board

Academic degree: MD

Professional title: Associate Professor

Reviewer's Country/Territory: Chile

Author's Country/Territory: United States

Manuscript submission date: 2020-02-28

Reviewer chosen by: AI Technique

Reviewer accepted review: 2020-03-02 22:11

Reviewer performed review: 2020-03-02 22:56

Review time: 1 Hour

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 Grade E: Do not publish		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

SPECIFIC COMMENTS TO AUTHORS

Comments on How Old is Too Old? In vivo engraftment of human peripheral blood stem cells cryopreserved for up to 17 years - implications for clinical transplantation and stability programs Introduction Clear and well written. Material and Methods Please, add a brief description of the freezing and thawing protocols Results It is not clear, why did authors randomly select 4 of 10 PBSC units and did not test all units (Tables 1 and 2). At the same time, was it a coincidence that the four randomly selected PBSC units came from the first four available (A to D)? Please, clarify. Discussion A little bit long, but adequate. Tables: Commented. Abstract and Core tip: OK. In summary. The manuscript needs minor edition to be suitable to be published.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No



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PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 55027

Title: How Old is Too Old? In vivo engraftment of human peripheral blood stem cells cryopreserved for up to 17 years - implications for clinical transplantation and stability programs

Reviewer's code: 03471230

Position: Peer Reviewer

Academic degree:

Professional title:

Reviewer's Country/Territory: China

Author's Country/Territory: United States

Manuscript submission date: 2020-02-28

Reviewer chosen by: AI Technique

Reviewer accepted review: 2020-03-02 08:03

Reviewer performed review: 2020-03-19 02:52

Review time: 16 Days and 18 Hours

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

SPECIFIC COMMENTS TO AUTHORS

The capacity of successfully store and thaw long-term cryopreserved products maybe is a key step for some autologous patients. In this study, the authors reported that PBSC could engraft after cryopreservation for mean of 17 years. The results showed that BFU-E growth was shown in 9 of 10 cryopreservation (range 13.6-18.3 years) PBSC units and CFU-GM growth in 7 of 10 units post-thaw. Immunodeficient mice transplanted with CD34+cells, picking randomly from the cryopreservation PBSC, and demonstrated with the presence of 34±24% human CD45+ cells and its differentiation at 12 weeks. The growth of erythroid and myeloid colonies was also found in the harvested bone marrow from all mice. But, I also have some comments: 1. There are several stem cells sources with great properties, such as umbilical cord blood stem cells and bone marrow mesenchymal stem cells, as significant candidates for stem cell transplantation in clinic treatment. Is it essential to investigate the properties of long-term cryopreserved PBSC in clinical trials? 2. A new life hematopoiesis function of immunodeficient patient. It needs more results to support the engraftment results in the report.

INITIAL REVIEW OF THE MANUSCRIPT



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Google Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

BPG Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: World Journal of Stem Cells

Manuscript NO: 55027

Title: How Old is Too Old? In vivo engraftment of human peripheral blood stem cells cryopreserved for up to 17 years - implications for clinical transplantation and stability programs

Reviewer's code: 02726701

Position: Editorial Board

Academic degree: MD

Professional title: Associate Professor

Reviewer's Country/Territory: Chile

Author's Country/Territory: United States

Manuscript submission date: 2020-02-28

Reviewer chosen by: Ze-Mao Gong

Reviewer accepted review: 2020-04-19 22:16

Reviewer performed review: 2020-04-19 22:42

Review time: 1 Hour

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

SPECIFIC COMMENTS TO AUTHORS

The authors made all of the changes recommended by the reviewers. Modifications and clarifications of the manuscript are welcome and appropriate. I think it is now suitable to be published.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

BPG Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No