

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Gastroenterology*

**Manuscript NO:** 80383

**Title:** Current and future perspectives on acute-on-chronic liver failure: challenges of transplantation, machine perfusion and beyond

**Provenance and peer review:** Invited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 06369163

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Professor

**Reviewer's Country/Territory:** South Africa

**Author's Country/Territory:** Brazil

**Manuscript submission date:** 2022-09-25

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-09-30 14:50

**Reviewer performed review:** 2022-10-09 17:36

**Review time:** 9 Days and 2 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 Grade E: Do not publish
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 checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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<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
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#### **SPECIFIC COMMENTS TO AUTHORS**

Format and content is good and relevant to the topic Concise and interesting Sub  
headings are good and well summarized Abstract - grammar and word order needs  
some work

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**Reviewer's code:** 06391996

**Position:** Peer Reviewer

**Academic degree:** Doctor, PhD

**Professional title:** Doctor

**Reviewer's Country/Territory:** China

**Author's Country/Territory:** Brazil

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**Reviewer accepted review:** 2022-10-14 08:29

**Reviewer performed review:** 2022-10-23 02:17

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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
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statements**

Peer-Review: ☒ Anonymous ☐ Onymous

Conflicts-of-Interest: ☐ Yes ☒ No

## **SPECIFIC COMMENTS TO AUTHORS**

The title of the manuscript is too broad to reflect the key content of the manuscript. Abstract and key words summarized the content of the manuscript. The aim of this manuscript in the background seems to be inconsistent with the content of the full text. It is necessary to supplement the conclusion and put forward the clinical guiding and the quality and importance of this manuscript. Other items basically meet the requirements of this publication. This manuscript reviews: The different diagnostic criteria of ACLF; The inducing factors and prognosis of ACLF; The currently ACLF management and treatment, especially in liver transplant population selection and HOPE in the application of liver transplantation, etc. It is concluded that the urgent and global discussion about allocation and prioritisation for transplantation in critically ill ACLF patients is awaited because there is evidence suggesting the current model may not portray their waitlist mortality. In addition, whilst donor organ quality is meant to be a prognostic factor in the ACLF setting, recent evidence suggests that machine perfusion of the liver may be a safe tool to improve the donor organ pool and expedite liver transplantation in this scenario. For the specific modification requirements to the author, please see the attachment.