

To the Editor-in-chief and the Science Editor of the *World Journal of Gastroenterology*,

Re: Submitted manuscript entitled "**Updates on the diagnosis and management of acute-on-chronic liver failure**". [Manuscript NO.: 80383, Minireviews]

We thank the Editor and reviewers for the helpful comments on our submitted manuscript. Following them, we have revised the manuscript and provided a point-by-point response to the comments below. All the changes in the original manuscript are highlighted in the revised version submitted. We hope the manuscript now meets the standard expected of the *World Journal of Gastroenterology*.

Sincerely,

Yuri Boteon (on behalf of all co-authors)

In response to the Company editor-in-chief

We thank the Editor for the comments. The original figure in PowerPoint format is attached to the submission. We confirm this is an original figure; thus, permission for the use is not required. The copyright information was added to the bottom right-hand side of the picture as per request. All related documents, audio core tip, biostatistics review certificate, conflict of interest disclosure form, and copyright license agreement.

In response to Reviewer 1

Comments to the authors: The title of the manuscript is too broad to reflect the key content of the manuscript.

Response: We thank the reviewer for the thoughtful analysis of the work. Accordingly, we have updated the title of the manuscript to reflect its key content (liver transplantation and machine perfusion).

Comments to the authors: The aim of this manuscript in the background seems to be inconsistent with the content of the full text.

Response: We appreciated the observation from the reviewer. We have amended the aim of the manuscript in the background to be consistent with the content of the full text.

Comments to the authors: It is necessary to supplement the conclusion and put forward the clinical guiding and the quality and importance of this manuscript.

Response: A Conclusion section summarising the clinical guiding and the quality and importance of this manuscript was included per the reviewer's suggestion.

Comments to the authors: For the specific modification requirements to the author, please see the attachment.

We have accepted all reviewer comments and amended the manuscript accordingly.

1. We modified the term "cirrhotic patients" in the abstract.
2. As stated previously, the aim of this manuscript in the background was amended to be consistent with the content of the full text.
3. We have discussed the prognosis of ACLF in more detail. Also, we clarified that a detailed and profound discussion of each topic is beyond the scope of the manuscript.
4. We supplemented the manuscript with more information on gut microbiota's application and clinical significance in managing ACLF.
5. As stated previously, we have updated the title of the manuscript to reflect its key content (liver transplantation and machine perfusion).

Reviewer 2

Comments to the authors: grammar and word order needs some work.

Response: We appreciate the complimentary comments from the reviewer. Thank you for spending your valuable time reviewing the manuscript. The paper has been carefully revised, and the language was polished.