

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 75314

Title: Artificial intelligence in liver ultrasound

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 04281468

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: China

Manuscript submission date: 2022-02-07

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-02-08 02:26

Reviewer performed review: 2022-02-08 08:24

Review time: 5 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 Grade E: Do not publish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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous

statementsConflicts-of-Interest: [☐] Yes [☒] No**SPECIFIC COMMENTS TO AUTHORS**

In this manuscript, the authors present a review to introduce the current status and future perspectives of AI in liver ultrasound. This work is meaningful. I hope my comments can help to improve the quality of this manuscript. 1. Chapter number of Qualitative evaluation and Quantitative study is the same. 2. I suggest to given the whole structure of your review in the Section 1. It is better apply a figure or table to completely illustrate your structure. 3. In addition, in this manuscript, we also suggest to present some pictures to visually illustrate the existing methods. 4. To the best of my knowledge, there are several key disadvantages of AI. First, it is difficult to prepare the large-scale dataset with ground truth, especially for medical images. Second, the interpretability and generalization of deep learning is low. However, in your manuscript, you do not refer to these disadvantages. 5. In this manuscript, as the readers, we also want to know how to do the next work in this field. Thus, I suggest to discuss the future works in detail.

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Reviewer's code: 06247911

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Reviewer's Country/Territory: Oman

Author's Country/Territory: China

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Review time: 3 Days and 3 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 checked="" type="checkbox"/> Grade A: Priority publishing <input 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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
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statements

Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The work is well presented and the methods adopted to acquire the inputs are explained with quantitative and qualitative analysis. The tabular column with briefing is well supporting the context. No concerns to address.