PEER-REVIEW REPORT

Name of journal: Artificial Intelligence in Gastroenterology

Manuscript NO: 68856

Title: Application of artificial intelligence in liver diseases: from diagnosis to treatment

Reviewer's code: 05758135

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Japan

Author's Country/Territory: China

Manuscript submission date: 2021-06-30

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-07-08 00:16

Reviewer performed review: 2021-07-12 02:34

Review time: 4 Days and 2 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [ ] Grade C: Good [Y] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [ ] Minor revision [Y] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

This manuscript is an article about the use of AI or ML in clinical actions for liver lesions. The article is written in the form of a literature review for each lesion. Throughout the article, I think it is correct to take the stance that "AI and others can support treatment".

  However, this manuscript has the following shortcomings. The authors need to revise the manuscript. - In most of the articles, the authors cite the literature and mention the effects such as improved accuracy of diagnosis and cost reduction. However, it lacks persuasiveness because it does not provide numerical values for evaluation. - In the description of treatment, few references are given; if the paper is to be in Review format, references should be given. - The structure of the paper is not clearly divided into chapters and sections, making it difficult to understand whether the topic (especially for the action, such as prediction, diagnosis, or treatment) has changed. - Some abbreviations are defined but not referred to, and some are defined multiple times, making it difficult to read. - HCV, cirrhosis, and HCC are representative liver lesions, so I understand that they are covered extensively. However, they appear more than once as chapters (or sections), which makes it difficult to understand the whole. - I am not sure if the figures listed after the keywords in the manuscript are included in the text or not (there is no figure number and caption). It would be easier to understand which action for which lesion is being discussed if the figure were used in the introduction and referred to in subsequent sections.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Japan

Author's Country/Territory: China

Manuscript submission date: 2021-06-30

Reviewer chosen by: Man Liu

Reviewer accepted review: 2021-08-13 11:08

Reviewer performed review: 2021-08-15 05:45

Review time: 1 Day and 18 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[Y] Grade A: Priority publishing [ ] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [Y] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [Y] Yes [ ] No

SPECIFIC COMMENTS TO AUTHORS

Authors revised almost as reviewer's comments.