

PEER-REVIEW REPORT

Name of journal: *Artificial Intelligence in Gastroenterology*

Manuscript NO: 78084

Title: Role of artificial intelligence in the diagnosis and treatment of hepatocellular carcinoma

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06169813

Position: Peer Reviewer

Academic degree: PhD

Professional title: Senior Researcher

Reviewer's Country/Territory: China

Author's Country/Territory: India

Manuscript submission date: 2022-06-07

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-06-21 08:53

Reviewer performed review: 2022-06-21 10:27

Review time: 1 Hour

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 Grade E: Do not publish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

**Peer-reviewer
statements**

Peer-Review: [☒] Anonymous [☐] Onymous

Conflicts-of-Interest: [☐] Yes [☒] No

SPECIFIC COMMENTS TO AUTHORS

The author examines the "Role of artificial intelligence in the treatment of hepatocellular carcinoma" and discusses the current applicability, limitations, and future prospects of AI technology in diagnosing and treating liver cancer. recommendations below, 1, Currently, artificial intelligence should be utilized more for diagnosing liver cancer than for treating it. Concurrently, the content of the author's review is likewise centered on diagnosis; therefore, I recommend that the author alter the title of the document. 2, In therapeutic applications, the difficulty of AI is not just technical, but also ethical. The author stated the pertinent topics and proposed an introductory supplement for this portion of the content.

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Title: Role of artificial intelligence in the diagnosis and treatment of hepatocellular carcinoma

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05533299

Position: Peer Reviewer

Academic degree: MD

Professional title: Chief Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: India

Manuscript submission date: 2022-06-07

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-06-23 11:25

Reviewer performed review: 2022-06-27 16:06

Review time: 4 Days and 4 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" 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
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Peer-reviewer statements	Peer-Review: [<input checked="" type="radio"/>] Anonymous [<input type="radio"/>] Onymous Conflicts-of-Interest: [<input type="radio"/>] Yes [<input checked="" type="radio"/>] No
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SPECIFIC COMMENTS TO AUTHORS

This paper introduced the AI in the treatment of hepatocellular carcinoma. From the diagnosis, treatment and survival prediction, this paper mainly talks about how AI can assist clinical work. The author consulted a large number of papers to introduce the latest scientific research results, especially papers about radiology. The author's perspective of the direction of AI proposed by the paper complied with the future. There are some problems, which must be solved before it is considered for publication. If the following problems are well-addressed, this reviewer believe that the essential contribution of this paper are important for AI in HCC. 1. In page 1, ABSTRACT, authors are suggested to start broad in the general background, then narrow in on the relevant topic that will be pursued in the paper. Maybe this part can be improved! 2. It is necessary to focus on the treatment of liver cancer. 3. The appropriate number of pictures and tables is recommended. 4. The significance of this paper is not expound sufficiently. The author need to highlight this paper's innovative contributions.