

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 87687

Title: Development of a machine learning-based model for predicting risk of early postoperative recurrence of hepatocellular carcinoma

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 01221925

Position: Editorial Board

Academic degree: AGAF, FACS, FICS, MD, PhD

Professional title: Professor

Reviewer's Country/Territory: Greece

Author's Country/Territory: China

Manuscript submission date: 2023-08-26

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-08-26 16:23

Reviewer performed review: 2023-09-03 14:15

Review time: 7 Days and 21 Hours

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 Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input checked="" type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

Scientific significance of the conclusion in this manuscript	<input checked="" type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
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: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

This is a very interesting paper utilizing AI to evaluate the risk of recurrence in the case of HCC. Could the authors please respond to the following questions/comments: 1) Is there an inherent bias since the fact that these were all cases going to surgery first meant more limited disease? 2) Have the authors compared or are they planning to compare/validate their model with other existing ones?

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Peer-review model: Single blind

Reviewer's code: 06090125

Position: Peer Reviewer

Academic degree: MD

Professional title: Lecturer, Technical Editor

Reviewer's Country/Territory: Iraq

Author's Country/Territory: China

Manuscript submission date: 2023-08-26

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-09-11 18:15

Reviewer performed review: 2023-09-15 07:04

Review time: 3 Days and 12 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
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

Scientific significance of the conclusion in this manuscript	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" 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 type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

Despite being a novel piece of work, it presents certain challenges that may hinder the reader's ability to fully understand its main point. These challenges stem from both technical jargon and limitations in the English language. Below are some examples of these obstacles: My Comments and Suggestions to Authors: 1- In my view, the abstract is overly cumbersome and difficult to extract the main point. It would be helpful to include more detailed keywords to enhance clarity. 2- Please proofread the manuscript carefully, paying particular attention to grammatical errors, and improve the formatting of the text, figures, and tables as needed. 3- The contributions made in this manuscript may not be adequate for publication in this journal. Therefore, I strongly recommend that the authors clearly define and elaborate on their contributions. 4- The proposed method and experiments are not clearly illustrated. 5- The Results and Discussion section of the paper appears inadequate and requires more attention, with a need for better explanation and elaboration.. 6-The conclusions in this manuscript are primitive. Write your conclusions. 7- Please explain the proposed method in more details, what is the novelty of the proposed method compared to the state of the art?



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Additional References: The following articles could be useful: • A diagnostic testing for people with appendicitis using machine learning techniques. <https://doi.org/10.1007/s11042-022-11939-8> • Artificial Intelligence Solutions for Health 4.0: Overcoming Challenges and Surveying Applications. <https://doi.org/10.58496/MJAIH/2023/003>

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 87687

Title: Development of a machine learning-based model for predicting risk of early postoperative recurrence of hepatocellular carcinoma

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06090125

Position: Peer Reviewer

Academic degree: MD

Professional title: Lecturer, Technical Editor

Reviewer's Country/Territory: Iraq

Author's Country/Territory: China

Manuscript submission date: 2023-08-26

Reviewer chosen by: Cong Lin

Reviewer accepted review: 2023-10-08 04:53

Reviewer performed review: 2023-10-09 15:08

Review time: 1 Day and 10 Hours

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
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 checked="" type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements

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

SPECIFIC COMMENTS TO AUTHORS

In. the revised manuscript, the authors have addressed all my concerns, as a result, the reviewer would like to recommend this manuscript publish as is.