PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 77205

Title: Preoperative contrast-enhanced computed tomography-based radiomics model for overall survival prediction in hepatocellular carcinoma

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05226024

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: China

Manuscript submission date: 2022-04-20

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-04-21 00:50

Reviewer performed review: 2022-05-02 13:12

Review time: 11 Days and 12 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish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) [Y] Accept (General priority) [ ] Minor revision [ ] 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 study has implications for predicting overall survival in patients with hepatocellular carcinoma. In general, the abstract, background, methods, results and statistical methods are described in detail and clearly. Please add the ratio between training group and verification group. There was no consistent analysis of the ROI delineated by different people.   The topic of the study was survival prediction, and the follow-up mentioned progression-free survival, but the results only included the overall survival. Please describe in detail the methods used to predict patient survival based on TNM staging. Although there is no external validation, if there are prospective data results, the results of the study will be more convincing. And the proportion between the training group and the verification group   The shortcoming is that the logical structure of the discussion section is a little confused. I suggest that the author briefly describe the main methods and important results of the experiment in the first paragraph. Next, the innovation of this study and the significance of this field are discussed. Then the significance of AFP.NLR and omics score for OS prediction is discussed. Finally, the value of the model established in this study was highlighted by comparing the results of OS prediction between the model established in this study and TNM and BCLC staging system.

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Title: Preoperative contrast-enhanced computed tomography-based radiomics model for overall survival prediction in hepatocellular carcinoma

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05424290

Position: Editorial Board

Academic degree: MBBS, MD

Professional title: Academic Research, Doctor, Professor

Reviewer's Country/Territory: India

Author's Country/Territory: China

Manuscript submission date: 2022-04-20

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-05-11 13:02

Reviewer performed review: 2022-05-20 03:07

Review time: 8 Days and 14 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] 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) [Y] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
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SPECIFIC COMMENTS TO AUTHORS

Reviewer's comments   Authors have made radiomics based model for survival prediction in HCC. It includes AFP and NLR. I have few comments.   1. Though additional file 1 has been given, but I feel it inadequate. The radiomics features have been given in a coded language, they should be explained as what these 7 features mean. 2. Is this a unique software which pertains to single MRI machine model specified to a manufacturer or the software is generalized. This should also be explained.