



PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 63445

Title: Application of artificial intelligence in the preoperative imaging of hepatocellular carcinoma: Current and future perspectives

Reviewer's code: 00006518

Position: Editorial Board

Academic degree: MD, MHSc, PhD

Professional title: Associate Professor, Chief Doctor, Doctor

Reviewer's Country/Territory: Taiwan

Author's Country/Territory: China

Manuscript submission date: 2021-01-28

Reviewer chosen by: Ya-Juan Ma

Reviewer accepted review: 2021-03-03 02:53

Reviewer performed review: 2021-03-15 11:45

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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 Grade E: Do not publish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 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 checked="" type="checkbox"/> Accept (General priority) <input 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



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SPECIFIC COMMENTS TO AUTHORS

The authors reviewed current data on the role of artificial intelligence (AI) in preoperative imaging diagnosis of hepatocellular carcinoma (HCC) focused on some promising results in the field of segmentation, differential diagnosis, prediction of histopathology, early recurrence after curative treatment, and treatment response. They also pointed out several limitations in applying AI on preoperative evaluation for HCC currently such as low reproducibility, heterogeneity of imaging acquisition, and lack of external multicenter validation. This manuscript was well written with adequate language overall, only minor revision was recommended. 1. More data regarding immunotherapy (IO) for HCC has been published recently, please update reference 56. 2. Revise 'machining learning' to 'machine learning' in figure 2.