



PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 86131

Title: Advances in application of novel magnetic resonance imaging technologies in liver disease diagnosis

Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03730379

Position: Peer Reviewer

Academic degree: MD

Professional title: Assistant Professor, Doctor

Reviewer's Country/Territory: Portugal

Author's Country/Territory: China

Manuscript submission date: 2023-06-01

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-06-02 08:47

Reviewer performed review: 2023-06-12 01:51

Review time: 9 Days and 17 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 Grade E: Do not publish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 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



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Scientific significance of the conclusion in 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 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 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

SPECIFIC COMMENTS TO AUTHORS

Dear authors The topic is very important and for sure will be even more important in the future. All the techniques are very well described and explained. I have only two comments: - Could you include in the table the values of sensitivity, specificity, NPV and PPV for each technique - The language might be revised.



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Author's Country/Territory: China

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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
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Scientific significance of the conclusion in 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 scientific significance
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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 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 comprehensive review offers an extensive overview of the applications, advantages, disadvantages, and future prospects associated with the latest MRI techniques, specifically focusing on their relevance to liver tumors, liver functions, liver stiffness, liver steatosis, and the overall liver context. The scholarly value of this paper is considerable, and with some recommended revisions, it holds potential for publication.

In the field of general practice, the assessment of liver fibrosis commonly utilizes vibration-controlled transient elastography (VCTE) alongside MRE. Therefore, a comprehensive analysis comparing VCTE and MRE would significantly improve the overall quality of the paper. While this report highlights the superiority of MRI radiomics in detecting microinvasion of hepatocellular carcinoma, it is worth noting that other reports have also found MRI radiomics to be valuable in predicting liver fibrosis and inflammation. Consequently, you may consider including this point as well. I think that it is not accurate to assert that the applications of MREs listed in Table 1 are intended for the detection of HCC.