

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 82557

Title: Non-invasive evaluation of liver steatosis with imaging modalities: New techniques and applications

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03765308

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Doctor, Professor

Reviewer's Country/Territory: Taiwan

Author's Country/Territory: China

Manuscript submission date: 2023-01-05

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-01-05 22:54

Reviewer performed review: 2023-01-09 14:18

Review time: 3 Days and 15 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 Grade E: Do not publish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

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 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input type="checkbox"/> Anonymous <input checked="" type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

Summary This review article made clear and extensive demonstrations on current non-invasive liver steatosis measurement modalities. The performance, benefit and shortage of each modality were well listed in two Tables. Although a significant part of this review derived from Ref 4, we believe that this article is suitable for publication in the journal after minor revision. **Comments:** 1. The mechanisms of steatosis measurement were described in the text. Very little is explored on the differences between modalities. 2. Please give illustrations to describe the mechanism of steatosis measurements and list its use in current modalities. 3. Please point out that CAP, ATI and MRI-PDFF are unable to differentiate grade 2 with grade 3 liver steatosis. 4. English needs to be improved. In the ATT section, "The results are presented in dB/cm/MHz with the liver stiffness measurement." This sentence is confusing. It will be better to separate it into two sentences. For example: The results are presented in dB/cm/MHz. The steatosis measurement is obtained together with the stiffness value.

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Peer-review model: Single blind

Reviewer's code: 04423126

Position: Editorial Board

Academic degree: FACS

Professional title: Chief Doctor, Professor

Reviewer's Country/Territory: Germany

Author's Country/Territory: China

Manuscript submission date: 2023-01-05

Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2023-02-08 09:41

Reviewer performed review: 2023-02-08 09:49

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
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	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

The present review shows the advantages and disadvantages of different imaging methods for assessing the fat content of the liver. Mainly the most different ultrasonic methods are evaluated. I don't think an MRI examination is a practical screening due to the high costs. Overall, the article shows no new insights. Especially because the available studies are not particularly meaningful due to the low number of cases.

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Title: Non-invasive evaluation of liver steatosis with imaging modalities: New techniques and applications

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Peer-review model: Single blind

Reviewer's code: 03713791

Position: Peer Reviewer

Academic degree: MD

Professional title: Associate Professor

Reviewer's Country/Territory: Italy

Author's Country/Territory: China

Manuscript submission date: 2023-01-05

Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2023-02-07 10:58

Reviewer performed review: 2023-02-09 17:01

Review time: 2 Days and 6 Hours

Scientific quality	<input checked="" type="radio"/> Grade A: Excellent <input type="radio"/> Grade B: Very good <input type="radio"/> Grade C: Good <input type="radio"/> Grade D: Fair <input type="radio"/> Grade E: Do not publish
Novelty of this manuscript	<input type="radio"/> Grade A: Excellent <input checked="" type="radio"/> Grade B: Good <input type="radio"/> Grade C: Fair <input type="radio"/> Grade D: No novelty
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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

Zeng et al wrote a review article about non invasive, ultrasound based techniques for liver steatosis evaluation. The topic is interesting and it has been analyzed in depth. Minor comments: 1) ASQ: it seems that only one study (ref 92) has been performed on humans. Is it the only one? If so, more caution for ASQ is necessary. 2) Conclusions are too vague. Please add Authors' point of view and personal opinion about possible future perspectives.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Reviewer's Country/Territory: Taiwan

Author's Country/Territory: China

Manuscript submission date: 2023-01-05

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2023-03-08 08:18

Reviewer performed review: 2023-03-08 08:55

Review time: 1 Hour

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
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Peer-reviewer	Peer-Review: <input type="checkbox"/> Anonymous <input checked="" type="checkbox"/> Onymous



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statements

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

SPECIFIC COMMENTS TO AUTHORS

Accepted for publication.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Professional title: Associate Professor

Reviewer's Country/Territory: Italy

Author's Country/Territory: China

Manuscript submission date: 2023-01-05

Reviewer chosen by: Jia-Ping Yan

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Reviewer performed review: 2023-03-08 19:14

Review time: 1 Hour

Scientific quality	<input checked="" type="checkbox"/> Grade A: Excellent <input 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
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statements

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

SPECIFIC COMMENTS TO AUTHORS

Answers were fine