

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Gastroenterology*

**Manuscript NO:** 86619

**Title:** Efficacy and safety of semaglutide in non-alcoholic fatty liver disease

**Provenance and peer review:** Unsolicited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 05911905

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

**Reviewer's Country/Territory:** China

**Author's Country/Territory:** Canada

**Manuscript submission date:** 2023-06-28

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2023-06-28 13:12

**Reviewer performed review:** 2023-07-10 21:13

**Review time:** 12 Days and 8 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 Grade E: Do not publish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
Creativity or innovation 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 creativity or innovation

<b>Scientific significance of the conclusion in this manuscript</b>	<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
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer statements</b>	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

Dr. Zhu and his colleague systemically reviewed the effect of Semaglutide on non-alcoholic fatty liver disease in this meta analysis. Unlike pervious report, their work only focused on the biopsy or imaging scan -confirmed NAFLD RCT studies, with histological outcomes reported. General speaking, it is a well-designed and well-written meta-analysis. However, some minor revisions are needed:

Table 1: Newsome (2020) should be Newsome (2021) for Loomba(2023) study Male/ female: 22(31)/49/(71. should be 22(31)/49(69) Age (SD): 59 (9.0) should be 59.5(8.0) For result section, please as mention related Figures in the text. For example: Semaglutide was associated with a significantly higher likelihood of NASH resolution with no worsening of liver fibrosis (OR 3.18, 95% CI 1.70 to 5.95, I2 = 0% Fig2A)., which will make the manuscript more readable.

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**Peer-review model:** Single blind

**Reviewer's code:** 05560872

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

**Reviewer's Country/Territory:** China

**Author's Country/Territory:** Canada

**Manuscript submission date:** 2023-06-28

**Reviewer chosen by:** Geng-Long Liu

**Reviewer accepted review:** 2023-07-29 11:25

**Reviewer performed review:** 2023-08-06 10:22

**Review time:** 7 Days and 22 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
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	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

#### SPECIFIC COMMENTS TO AUTHORS

Comment: Should the 'wong outcome (n=1)' in the Figure 1 be 'wrong outcome (n=1)'?

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**Peer-review model:** Single blind

**Reviewer's code:** 04025443

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Doctor, Senior Researcher

**Reviewer's Country/Territory:** Russia

**Author's Country/Territory:** Canada

**Manuscript submission date:** 2023-06-28

**Reviewer chosen by:** Geng-Long Liu

**Reviewer accepted review:** 2023-07-28 07:09

**Reviewer performed review:** 2023-08-07 21:12

**Review time:** 10 Days and 14 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
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## SPECIFIC COMMENTS TO AUTHORS

Dear colleagues! I read with pleasure and interest your manuscript entitled "Efficacy and safety of semaglutide in non-alcoholic fatty liver disease: A systematic review and meta-analysis". In this properly registered and adequately performed study based on the analysis of the data obtained in 3 available clinical trials you showed that semaglutide has beneficial histological, radiologic, liver enzyme, and cardiometabolic effects in patients with NAFLD, with a well-tolerated safety profile. These results evidently fill knowledge gap and may be interesting to the readers. I did not detect any major flaws and suppose that the paper may be published as is.