

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 78423

Title: Atherogenic index of plasma combined waist circumference and body mass index to predict metabolic-associated fatty liver disease

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03680794

Position: Editorial Board

Academic degree: AGAF, MD, PhD

Professional title: Professor

Reviewer's Country/Territory: Taiwan

Author's Country/Territory: China

Manuscript submission date: 2022-06-26

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-06-26 23:43

Reviewer performed review: 2022-07-06 07:50

Review time: 9 Days and 8 Hours

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 Grade E: Do not publish
Language quality	<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
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 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

This study aims to use atherogenic index of plasma (AIP) combined with waist circumference (WC) and body mass index (BMI) to predict metabolically associated fatty liver disease (MAFLD) in obesity patients. The results showed that AIP was as good as other predictors such as WC and BMI, and it was even better to combined with these two factors. The MAFLD diagnosis was completed with MRI as the diagnostic gold standard. Overall, it was a well written and designed study, however, the result was not surprised since these three factors were all demonstrated to be associated other morbidities of obesity. There were few points needed to be clarified: 1. Would it possible to provide a cut point of AIP to suggest that the patient with this AIP or above may have a higher risk of MAFLD and we need to pay more attention of the liver condition? 2. The author developed a A-W-B model (The regression equation was $\text{logit (A-W-B)} = -8.782 + 2.560 \times \text{AIP} + 0.049 \times \text{WC} + 0.170 \times \text{BMI}$) to predict MAFLD, but it was not clear how to use it in clinic? 3. MAFLD was commonly clinically diagnosed by abdominal ultrasonography, not MRI. The degree of fatty change of liver by ultrasonography could be divided as mild, moderate and severe, but this difference was not mentioned in the draft. Were there any relationships between AIP, A-W-B model and the severity of fatty change by ultrasonography?

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Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 02991458

Position: Peer Reviewer

Academic degree: MD

Professional title: Associate Professor

Reviewer's Country/Territory: Turkey

Author's Country/Territory: China

Manuscript submission date: 2022-06-26

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-07-07 08:20

Reviewer performed review: 2022-07-13 20:14

Review time: 6 Days and 11 Hours

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
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 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: [☒] Anonymous [☐] OnymousConflicts-of-Interest: [☐] Yes [☒] No**SPECIFIC COMMENTS TO AUTHORS**

1. AIP value showed non-homogeneous distribution in this study. It should be given as the median (range). However, some data, such as SUA, showed homogeneous distribution. They should be presented as mean \pm SD. Authors should reconsider statistical tests. 2. It is unclear whether hyperlipidemia and diabetic patients were excluded from the study. 3. It should be stated whether there is a use of lipid-lowering drugs or drugs that affect lipid metabolism.