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PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 78451

Title: The clinical value of predictive model based on liver stiffness measurement in predicting liver reserve function of compensated chronic liver disease

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03700188
Position: Editorial Board
Academic degree: MD, PhD
Professional title: Assistant Professor, Attending Doctor
Reviewer's Country/Territory: Brazil
Author's Country/Territory: China

Manuscript submission date: 2022-07-01

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-07-08 00:58

Reviewer performed review: 2022-07-09 17:07

Review time: 1 Day and 16 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[Y] Grade A: Priority publishing [ ] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [Y] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No

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Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

Correctly determining the functional reserve of the liver is difficult and the existence of several methods is evidence of this difficulty. The proposal of a model that can be objective and reproducible is an important achievement. The study was well designed, the manuscript is well written, the methodology is well described. The authors used recent references to support the discussion.

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Manuscript NO: 78451

Title: The clinical value of predictive model based on liver stiffness measurement in predicting liver reserve function of compensated chronic liver disease

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 02942902
Position: Editorial Board
Academic degree: MD, PhD

Professional title: Associate Professor

Reviewer's Country/Territory: Japan

Author's Country/Territory: China

Manuscript submission date: 2022-07-01

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-07-10 16:04

Reviewer performed review: 2022-07-16 16:12

Review time: 6 Days

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [ ] Minor revision [Y] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No

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Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

They proposed new models that can effectively predict the liver function. I consider that this paper included some interesting points. However, I have some concerns. Major comments: 1) The liver stiffness measurement (LSM) surely contributes to the superiority of their model. However, in the current study, they excluded those with incomplete LSM data. I consider that such patients should be classified as those who cannot be diagnosed by their models. If many patients were excluded due to the unsuccessful measurements, the real diagnostic performance for the all patients might be lower than the presented data. They should show whether their proposing models can provide good diagnostic performances, even the LSM-unmeasurable patients would be regarded as those without a correct diagnosis. 2) The LSM technique requires an expensive tool, and thus can be conducted in specific institutions. The limited availability may abolish the versatility/utility of their models. 3) As the authors mentioned, most of the studied patents suffered from HBV-related liver diseases. Regarding the biomarkers, diagnostic performances for the degree of liver fibrosis are different among the etiologies. If possible, kindly enlarge the number of cases without HBV-infection and check the diagnostic performances. Minor comments: 1) They described 'The normally distributed continuous variables were presented as mean ± standard deviation (SD), which were further evaluated by Student's t-test in the different groups'. Kindly mention how they determined the parametric/ nonparametric variables. In addition, they should add how they analyzed the abnormally-distributed (nonparametric) variables. 2) They cited BavenoⅥ paper. Kindly cite the BavenoⅦ paper (J Hepatol2022 Apr;76(4):959-974).

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RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 78451

Title: The clinical value of predictive model based on liver stiffness measurement in predicting liver reserve function of compensated chronic liver disease

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 02942902
Position: Editorial Board
Academic degree: MD, PhD

Professional title: Associate Professor

Reviewer's Country/Territory: Japan

Author's Country/Territory: China

Manuscript submission date: 2022-07-01

Reviewer chosen by: Ze-Mao Gong

Reviewer accepted review: 2022-08-16 15:20

Reviewer performed review: 2022-08-17 11:27

Review time: 20 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[Y] Grade A: Priority publishing [ ] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [Y] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Peer-reviewer	Peer-Review: [Y] Anonymous [ ] Onymous

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

SPECIFIC COMMENTS TO AUTHORS

The authors responded to the comments and addressed the concerns.