

## PEER-REVIEW REPORT

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

**Manuscript NO:** 87580

**Title:** Predicting disease progression in cirrhotic patients after transjugular intrahepatic portosystemic shunt implantation: A sex-stratified analysis

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

**Peer-review model:** Single blind

**Reviewer's code:** 02539765

**Position:** Peer Reviewer

**Academic degree:** MBBS, MD

**Professional title:** Additional Professor, Teacher

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

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

**Manuscript submission date:** 2023-08-18

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2023-08-18 01:54

**Reviewer performed review:** 2023-08-24 11:58

**Review time:** 6 Days and 10 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 Grade E: Do not publish
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

<b>Scientific significance of the conclusion in this manuscript</b>	<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 scientific significance
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input 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

In this retrospective study, authors have evaluated and constructed a skeletal muscles index-based model predicting progression in cirrhotic patients after TIPS implantation in a sex-dependent manner. Overall study quality is reasonable, however, there are certain concerns which need to be addressed.

- It seems that only selected variables were used in the regression analysis. Many important variables, including serum bilirubin, INR, age, BMI, etc, did not appear to have been taken into account, leaving the risk of significant bias.
- It may be inappropriate to include post-TIPS complications (such ACLF and HE) in a model used to predict the prognosis of patients who have had TIPS implanted. As clinically relevant factors, only pre-TIPS parameters should be used.
- What was the basis of sample size selection? It would be better to have a flow diagram showing how eligibility was decided and reasons for exclusion at different stages.
- In the abstract, some non-standard abbreviation (SMI, FIPS, etc) have been used which need to be expanded
- How BMI was calculated in cirrhosis patients with ascites?
- What is the relevance of figure 2 in the current study?

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**Peer-review model:** Single blind

**Reviewer's code:** 05531699

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

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

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

**Manuscript submission date:** 2023-08-18

**Reviewer chosen by:** Yu-Lu Chen

**Reviewer accepted review:** 2023-09-11 06:03

**Reviewer performed review:** 2023-09-16 07:32

**Review time:** 5 Days and 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
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

<b>Scientific significance of the conclusion in this manuscript</b>	<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 scientific significance
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<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

The Authors present the results of a well conducted study investigating the construction of a nutrition-based model to predict progression in cirrhotic patients after TIPS implantation in a sex-dependent manner. The results may have some relevance in the scientific debate of the field and the paper is well presented. Some minor comments: - in the abstract, please spell out SMI - general proof-reading is required - please improve quality of artwork