

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 60780

Title: Development and validation of a prognostic model for patients with hepatorenal syndrome: a retrospective cohort study

Reviewer's code: 03647881

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Associate Professor, Attending Doctor

Reviewer's Country/Territory: Taiwan

Author's Country/Territory: China

Manuscript submission date: 2020-11-13

Reviewer chosen by: Pan Huang (Quit in 2020)

Reviewer accepted review: 2020-12-10 05:21

Reviewer performed review: 2020-12-15 11:45

Review time: 5 Days and 6 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 Grade E: Do not publish
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 checked="" type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" 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

No comment.

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 60780

Title: Development and validation of a prognostic model for patients with hepatorenal syndrome: a retrospective cohort study

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: 2020-11-13

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2020-12-28 05:57

Reviewer performed review: 2020-12-28 06:20

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
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 checked="" type="checkbox"/> Accept (General priority) <input 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

SPECIFIC COMMENTS TO AUTHORS

This is a very interesting approach in this relevant topic. In my opinion, this is a very interesting manuscript for our readers.

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 60780

Title: Development and validation of a prognostic model for patients with hepatorenal syndrome: a retrospective cohort study

Reviewer's code: 05348722

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Doctor, Postdoc

Reviewer's Country/Territory: Poland

Author's Country/Territory: China

Manuscript submission date: 2020-11-13

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2020-12-28 06:04

Reviewer performed review: 2020-12-28 21:09

Review time: 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
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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" 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 is a very interesting study on development and validation of a novel prognostic score named GIMNS for patients with HRS. The paper, in its actual form, is worth publishing. It meets the high quality of papers published in WJG.

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 60780

Title: Development and validation of a prognostic model for patients with hepatorenal syndrome: a retrospective cohort study

Reviewer's code: 03765704

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Associate Professor

Reviewer's Country/Territory: Thailand

Author's Country/Territory: China

Manuscript submission date: 2020-11-13

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2020-12-29 22:00

Reviewer performed review: 2020-12-31 13:44

Review time: 1 Day 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
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 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

Sheng et al. developed a model for predicting mortality of patients with HRS. The strengths of the study are that there was a large number of enrolled patients, and the performance of the developed model was validated in another independent cohort. There are some major concerns: 1. Previous studies have shown that patients with type 1 HRS had worse prognosis than those with type 2 HRS. What was the proportion of patients with type 1 and 2 HRS in the derivation and validation cohort? Was there any difference in mortality of patients with type 1 and 2 HRS? Was the type of HRS associated with survival in these cohorts? Can the GIMNS score be applied to both type 1 and 2 HRS patients? 2. Can you please give more details about organ failure, e.g. which organs were affected, what was the proportion of patients with each failed organs? Did each failed organ have a similar magnitude of impact to mortality? 4. It is very interesting that MCHC but not Hb and MCH was associated with survival. What would be the possible explanation of this phenomenon? Supposed Hb, MCH, and MCHC was put in the multivariate model one at a time, would each of them be independently associated with mortality? 5. The AUROCs of MELD, CLIF-SOFA, and COSSH-ACLF scores in the validation cohort were much lower than those in the derivation cohort. The sensitivity of CLIF-SOFA in the validation cohort was also very much lower than that in the derivation cohort, i.e. 29.7% vs. 72.7%. Can you please give the reasons for these findings? 6. A very recent study (Zulian Terres et al. GastroHep 2020) reported that Child-Pugh score was better than CLIF-SOFA and MELD score in predicting 30-days mortality. What was the prognostic performance of Child-Pugh score in the derivation and validation cohort? Minor concerns: 1. In the result section on page 8, it was stated that “survivors had higher levels of INR and ALT compared to non-survivors”. This is inconsistent with the results shown in Table 1. Please correct. 2. In the discussion section

on page 15, there is a typo in the sentence “Pathological sections re needed to separate HRS from ATN”.

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 60780

Title: Development and validation of a prognostic model for patients with hepatorenal syndrome: a retrospective cohort study

Reviewer's code: 00008652

Position: Peer Reviewer

Academic degree: FRACP, FRCP, MBBS, MD

Professional title: Professor

Reviewer's Country/Territory: Singapore

Author's Country/Territory: China

Manuscript submission date: 2020-11-13

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2020-12-30 02:05

Reviewer performed review: 2021-01-01 11:39

Review time: 2 Days and 9 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
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 type="checkbox"/> Yes <input checked="" 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 manuscript is well written. I have only one comment to make:- 1. The finding of MCHC may be a statistical aberration rather than a true biological predictor of HRS, as firstly the reason behind its association is unclear, and its pathogenic role is even more doubtful. Secondly, the hazard ratio is the smallest of the 5 factors, and in absolute number it is also small, 1.014. 2. Thus, before we accept the significance of MCHC, I would suggest the authors do a re-analysis by removing MCHC from its score and see if the conclusions are affected in any way.

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 60780

Title: Development and validation of a prognostic model for patients with hepatorenal syndrome: a retrospective cohort study

Reviewer's code: 00069262

Position: Editorial Board

Academic degree: DSc, MD, PhD

Professional title: Academic Research, Doctor, Professor

Reviewer's Country/Territory: Mexico

Author's Country/Territory: China

Manuscript submission date: 2020-11-13

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2020-12-29 01:07

Reviewer performed review: 2021-01-19 20:09

Review time: 21 Days and 19 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 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
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SPECIFIC COMMENTS TO AUTHORS

The article by Xin-Yu Sheng, et al., Is interesting, well presented I suggest the following: 1. highlight the clinical importance of your conclusions 2. How can your proposed method be validated against the gold standard? 3. Is your method already applied in your hospital? what results have you had? help to improve the forecast?

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 60780

Title: Development and validation of a prognostic model for patients with hepatorenal syndrome: a retrospective cohort study

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: 2020-11-13

Reviewer chosen by: Man Liu

Reviewer accepted review: 2021-02-24 05:56

Reviewer performed review: 2021-02-24 05:58

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
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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
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



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In the present form, the paper is ready for publication.