



**PEER-REVIEW REPORT**

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

**Manuscript NO:** 60854

**Title:** Comparative Study of the ICG- Y5, Child-Pugh Score and MELD Score for the Prediction of HE after TIPS

**Reviewer’s code:** 05491991

**Position:** Peer Reviewer

**Academic degree:** FRCPE, MD, PhD

**Professional title:** Professor, Research Associate

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

**Author’s Country/Territory:** China

**Manuscript submission date:** 2020-11-23

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2020-11-26 01:58

**Reviewer performed review:** 2020-12-07 10:12

**Review time:** 11 Days and 8 Hours

<b>Scientific quality</b>	<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 Grade E: Do not publish
<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



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#### **SPECIFIC COMMENTS TO AUTHORS**

Hepatic encephalopathy has a high incidence rate and is one of the most debilitating complications, which have a serious effect on the prognosis and survival of patients. Although some risk factors are known, the identification of patients at risk of HE needs additional research. It is important to predict post-TIPS HE so that prevention and treatment measures can be implemented in high-risk HE patients to avoid adverse outcomes. The MELD score is used to predict the survival of patients undergoing TIPS and to evaluate patients with severe liver disease prior to transplantation. It includes three objective variables: the total bilirubin level, the creatinine level and the international normalized ratio. However, there are limited data on the use of liver function tools, especially the ICG-R15, to predict post-TIPS HE. In this study, the authors compared the clinical value of the MELD score, CPS and ICG-R15 for the prediction of post-TIPS HE in patients with PHT. This study is designed well. The methods are described in adequate detail. The results are interesting and the research objectives are achieved by the experiments used in this study. Comments: 1. The manuscript requires a minor editing. There are some minor language polishing. 2. Tables require editing. Please check and re-structure the tables carefully. 3. If the Article Highlight are not required by the journal, it should be removed.



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**Reviewer’s code:** 05491992

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Lecturer, Professor

**Reviewer’s Country/Territory:** Japan

**Author’s Country/Territory:** China

**Manuscript submission date:** 2020-11-23

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2020-11-23 11:41

**Reviewer performed review:** 2020-12-08 11:24

**Review time:** 14 Days and 23 Hours

<b>Scientific quality</b>	<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
<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 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



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#### **SPECIFIC COMMENTS TO AUTHORS**

The preoperative indocyanine green retention rate at 15 min, as one of the liver function assessment tools, has been developed as a prognostic indicator in patients undergoing surgery, but there are limited data on its role in TIPS. In this study, Wang et al determined whether the ICGR-15 can be used for prediction of post-TIPS HE in decompensated cirrhosis patients with portal hypertension and compare the ICGR-15, Child-Pugh score and MELD score clinical value in predicting post-TIPS HE with PHT. This study is very interesting, and the manuscript is very well written. The methods are very clear, and the results are reasonable, and well discussed. In my opinion, this study can be accepted after a minor editing. Thank you.



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**Manuscript NO:** 60854

**Title:** Comparative Study of the ICG- Y5, Child-Pugh Score and MELD Score for the Prediction of HE after TIPS

**Reviewer’s code:** 05491987

**Position:** Peer Reviewer

**Academic degree:** MD, PhD

**Professional title:** Professor, Research Scientist

**Reviewer’s Country/Territory:** Canada

**Author’s Country/Territory:** China

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<b>Scientific quality</b>	<input checked="" type="checkbox"/> Grade A: Excellent [ ] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
<b>Language quality</b>	[ ] Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
<b>Conclusion</b>	[ ] Accept (High priority) [ ] Accept (General priority) <input checked="" type="checkbox"/> Minor revision [ ] Major revision [ ] Rejection
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes [ ] No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes <input checked="" type="checkbox"/> No



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#### **SPECIFIC COMMENTS TO AUTHORS**

In this study, 195 patients with PHT who underwent elective TIPS were analysed. The inclusion criteria are reasonable, and the sample size is large. The preoperative ICG-R15, CPS and MELD score were analysed, and the results seems very interesting. Overall, the manuscript is acceptable. Comments: 1. Although the manuscript is well written, an editing is required. 2. The tables and notes of the tables are mixed up in the main text. Please check and move them to the end of the text. And also, some lines are not clear in the table 2. Please check and revise. 3. Minor language polishing should be proofed.