

## PEER-REVIEW REPORT

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

**Manuscript NO:** 56825

**Title:** Acute liver failure and death predictors in patients with dengue-induced severe hepatitis

**Reviewer's code:** 03727922

**Position:** Editorial Board

**Academic degree:** MD, MSc, PhD

**Professional title:** Doctor, Medical Assistant, Postdoc, Professor, Research Assistant Professor, Research Scientist, Staff Physician, Surgeon, Surgical Oncologist

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

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

**Manuscript submission date:** 2020-05-21

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2020-05-21 17:38

**Reviewer performed review:** 2020-05-21 18:22

**Review time:** 1 Hour

<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 Grade E: Do not publish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 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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous

## SPECIFIC COMMENTS TO AUTHORS

This is a very interesting manuscript entitled "Acute liver failure and death predictors in patients with dengue-induced severe hepatitis", however needs some improvements. Firstly, maybe in the title and all main manuscript you must needs definition if you would like to demonstrate the severe cases or all cases of dengue (that is very interesting) or specific with liver injury. So, I suggest you to try to focus in the main objective of your study. The impression is that the study starts to found all cases of dengue, then cases with liver injury and then cases with severe acute hepatitis (acute liver failure or fulminant hepatitis). In the introduction may needs to focus in your "problem", as liver injury and acute liver failure. I suggest you to real discribe the scientific hypothesis of your study. Than you must need to clarify the aim of your study. Must important clarification regarding all analysis with dengue cases or focus in severe cases. In the methods needs clarification regarding the acute liver failure. This world-renowned topic needs clarification. Furthermore, the most important risks regarding Fulminant hepatitis and it's classification (that had vast literature in this topic). You need to discribe the classification used as Kings College criteria and/or Cliche criteria / classification to Fulminant hepatitis. Results - Regarding this topics of liver injury and acute liver failure. You need to demonstrate how many cases you had that underwent a liver transplantation (meeting the Kings college criteria or Cliche criteria to classicfication the fulminant hepatitis). Moreover, in this severe cases with acute liver failure you must clarify the factor V , encephalopathy, acidosis, latic acid, dialysis, others... Discution - you must need to discribe the main limitations of your study. Furthermore, you need to show us the real benefit of your study to the clinical practice.

## PEER-REVIEW REPORT

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

**Manuscript NO:** 56825

**Title:** Acute liver failure and death predictors in patients with dengue-induced severe hepatitis

**Reviewer's code:** 03537672

**Position:** Peer Reviewer

**Academic degree:** MD, PhD

**Professional title:** Assistant Professor

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

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

**Manuscript submission date:** 2020-05-21

**Reviewer chosen by:** AI Technique

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**Reviewer performed review:** 2020-05-27 23:34

**Review time:** 1 Hour

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" 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 type="checkbox"/> Minor revision <input checked="" 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**

Comments to the authors This research itself is worth reporting to show the importance of DISH and ALF subsequent to DISH because the physicians in temperate countries would not be familiar with dengue fever and subsequent liver damage. The number of patient who enrolled in the study is relatively large, therefore, the statistical power of the analysis would be robust. However, this report seems to contain fundamental problems in the way of multivariate analysis. It is strongly recommended to authors to exclude PT-INR, and creatinine, to eliminate or reduce the risk of multicollinearity with the MELD score. Major concerns In Table 2 and associated discussion, there is a fundamental problem in the way of analysis. As mentioned above in the comments, MELD score is well-established predictive indicator for the prognosis of liver failure. And this score is calculated from T-bil, creatinine, PT-INR, and the status whether the patient is receiving hemodialysis or not. Therefore, there must be strong correlation between MELD score and PT-INR or creatinine. The presence of multicollinearity between MELD and these clinical parameters would affect the results of the regression analysis. It is not appropriate to conclude that the MELD score is the only significant factor that predicts ALF from DISH. We strongly recommend the authors to re-analyze the regression analysis of MELD score and other clinical variables excluding PT-INR and creatinine if the authors really want to insist on the importance of MELD score for prediction of progression to ALF from DISH. In Table 3, there is the same problem as mentioned about Table 2. Three variables out of four in this table correlate strongly in principal each other, therefore, there also be the concern about multicollinearity. The authors should review the selection of the variables that enter the regression analysis. In addition, the authors described that the presence of ALF was the dominant predictor of death from DISH prior to the analysis of Table 3, however, it is obvious that the

prognosis of ALF is very poor and the analysis of the odds ratio about the presence of ALF would be almost insignificant.

## RE-REVIEW REPORT OF REVISED MANUSCRIPT

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

**Manuscript NO:** 56825

**Title:** Acute liver failure and death predictors in patients with dengue-induced severe hepatitis

**Reviewer's code:** 03537672

**Position:** Peer Reviewer

**Academic degree:** MD, PhD

**Professional title:** Assistant Professor

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

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

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<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" 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>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



7041 Koll Center Parkway, Suite  
160, Pleasanton, CA 94566, USA  
**Telephone:** +1-925-399-1568  
**E-mail:** [bpgoffice@wjgnet.com](mailto:bpgoffice@wjgnet.com)  
**https://**[www.wjgnet.com](http://www.wjgnet.com)

no further comment to be addressed.