

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastrointestinal Surgery*

Manuscript NO: 85647

Title: Clinical significance of serum oxidative stress and serum uric acid levels before surgery for hepatitis B-related liver cancer

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06519760

Position: Peer Reviewer

Academic degree: MD

Professional title: Assistant Lecturer, Research Assistant

Reviewer's Country/Territory: India

Author's Country/Territory: China

Manuscript submission date: 2023-06-06

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-06-12 09:00

Reviewer performed review: 2023-06-20 06:54

Review time: 7 Days and 21 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 Grade E: Do not publish
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 checked="" type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

Scientific significance of the conclusion in 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 scientific significance
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
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

The manuscript written by Hou JX et al. investigate the preoperative serum oxidative stress level, serum uric acid (UA) level and their clinical significance in hepatitis B-related liver cancer. 110 Hepatitis B-related liver cancer patients who underwent hepatectomy from January 2016 to March 2019 were retrospectively analyzed. The logistic regression model and Pearson or Spearman correlation were used to analyze the correlation between oxidative stress level and UA, and the recurrence of hepatitis B-related liver cancer. Compared with the non-recurrence group, the levels of SOD and GSH in the recurrence group were lower and the levels of MDA and UA were higher. UA was positively correlated with MDA and negatively correlated with GSH. Finally, they concluded that SOD, GSH, MDA, and UA were all risk factors for postoperative recurrence in patients with hepatitis B-related liver cancer. The experiment of the study is designed very well, aims are very clear. Methods are reasonable. Data in tables are very good, and well discussed. Finally, the manuscript also reviewed previous related literature. There are some other limitations of this study besides the small sample size, and I suggest adding a description of the limitations of this research. Thank you for

giving opportunity to review your study.

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Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06078816

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Associate Professor, Doctor

Reviewer's Country/Territory: Italy

Author's Country/Territory: China

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Review time: 8 Days and 21 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
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
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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

Liver cancer is a life-threatening illness and one of the fastest-growing cancer types in the United States. In this retrospective study, the authors analyzed the clinical data of 110 patients with hepatitis B-related liver cancer who underwent hepatectomy and determined recurrence within three years after surgery. The correlation between preoperative serum oxidative stress level and serum uric acid, and recurrence of hepatitis B-related liver cancer was assessed. These findings provide a breakthrough in prognostic evaluation indicators of liver cancer. The study is set up correctly. The material studied allows to draw the conclusions. The paper is written well, the Introduction give a good overview about the study background and the authors raised clearly the hypothesis of the study. The description of material studied is accurate. The aim of the study is fulfilled. The material studied is large enough and allows to draw the conclusions. I have a minor suggestion; the results section should not only be described in the Tables and Figures but need to describe the important results in detail. In general, the article provides data support for clinical improvement of treatment and the results are interesting and could be useful for other studies. I recommend that the manuscript



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7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA
Telephone: +1-925-399-1568
E-mail: bpgoffice@wjgnet.com
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