PEER-REVIEW REPORT

Name of journal: *World Journal of Gastrointestinal Surgery*

Manuscript NO: 90552

Title: Construction of a predictive model for acute liver failure after hepatectomy based on neutrophil-to-lymphocyte ratio and albumin-bilirubin score

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer’s code: 04473821

Position: Peer Reviewer

Academic degree: PhD

Professional title: Research Assistant

Reviewer’s Country/Territory: Finland

Author’s Country/Territory: China

Manuscript submission date: 2024-01-19

Reviewer chosen by: AI Technique

Reviewer accepted review: 2024-01-25 04:39

Reviewer performed review: 2024-02-02 08:32

Review time: 8 Days and 3 Hours

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<th>Scientific quality</th>
<th>[ ] Grade A: Excellent</th>
<th>[ ] Grade B: Very good</th>
<th>[ ] Grade C: Good</th>
<th>[ ] Grade D: Fair</th>
<th>[ ] Grade E: Do not publish</th>
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<tr>
<td>Novelty of this manuscript</td>
<td>[ ] Grade A: Excellent</td>
<td>[ ] Grade B: Good</td>
<td>[ ] Grade C: Fair</td>
<td>[ ] Grade D: No novelty</td>
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<td>Creativity or innovation of this manuscript</td>
<td>[ ] Grade A: Excellent</td>
<td>[ ] Grade B: Good</td>
<td>[ ] Grade C: Fair</td>
<td>[ ] Grade D: No creativity or innovation</td>
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SPECIFIC COMMENTS TO AUTHORS
This study focuses on constructing a predictive model using the neutrophil-to-lymphocyte ratio (NLR) and albumin-bilirubin score (ALBI) to anticipate acute liver failure (ALF) in hepatocellular carcinoma patients after complete tumor resection (R0). This study is very interesting. The method is described in detail. It offers interesting insights into the predictive value of NLR and ALBI in post-hepatectomy ALF. The Figures and tables help the readers to make a more understanding of the study.
Comments 1: The background section could introduce the impact of ALF on patients and the current research status on this issue more comprehensively. Comments 2: While the results section mentions significant differences in NLR and ALBI between the two groups, providing more details on baseline characteristics and laboratory indicators would offer a more comprehensive understanding of the study participants. Comments 3: Further explanation of the AUC and other evaluation metrics would enhance the interpretation of the predictive model's efficacy. Comments 4: The conclusion is succinct. Reiterate the study's significance and potential implications for clinical practice. Comments 5: Language is fluent, but a careful review for spelling or grammar errors is
recommended to ensure professionalism. For example, the full name of the intrinsic term ALT, AST is generally Alanine aminotransferase, Aspartate aminotransferase, etc.
Name of journal: World Journal of Gastrointestinal Surgery

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Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer’s code: 07747473

Position: Peer Reviewer

Academic degree: PhD

Professional title: Assistant Lecturer

Reviewer’s Country/Territory: United States

Author’s Country/Territory: China

Manuscript submission date: 2024-01-19

Reviewer chosen by: AI Technique

Reviewer accepted review: 2024-01-22 12:46

Reviewer performed review: 2024-02-02 09:42

Review time: 10 Days and 20 Hours

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SPECIFIC COMMENTS TO AUTHORS
1 Title reflect the main subject of the manuscript. 2 Abstract is good (it summarizes and reflect the work described in manuscript). 3 Key words is ok. 4 The introduction provides a good background on the importance of predicting ALF. However, the authors could introduce the impact of ALF on patients more comprehensively. 5 Methods: The methods provide a detailed description of participant selection and experimental procedures. 6 Results are ok. The results section mentions significant differences in NLR and ALBI between the two groups. 7 Discussion: Emphasize the roles of NLR and ALBI in post-hepatectomy ALF in the discussion and discuss potential mechanisms and clinical applications. Conduct a more in-depth analysis of the relationship between results and existing literature to demonstrate the study's innovativeness. 8 Illustrations and tables: ok. 9 Biostatistics: ok. 10 References: ok. 11 The manuscript is well, concisely and coherently organized and presented. The manuscript has the potential to make a meaningful contribution to the field. 12. The manuscript met the requirements of ethics.