

## 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

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 Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation 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 creativity or innovation

<b>Scientific significance of the conclusion in this manuscript</b>	<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
<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

## 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



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recommended to ensure professionalism. For example, the full name of the intrinsic term ALT, AST is generally Alanine aminotransferase, Aspartate aminotransferase, etc.

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**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

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**Reviewer chosen by:** AI Technique

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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
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<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

## 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.