PEER-REVIEW REPORT

Name of journal: *Artificial Intelligence in Cancer*

Manuscript NO: 72357

Title: ARTIFICIAL NEURAL NETWORK FOR PREDICTION OF ACUTE KIDNEY INJURY AFTER LIVER TRANSPLANTATION FOR CIRRHOSIS AND HEPATOCELLULAR CARCINOMA

Reviewer's code: 02545570

Position: Editorial Board

Academic degree: MD

Professional title: Attending Doctor, Chief Doctor, Director, Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Brazil

Manuscript submission date: 2021-10-12

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-10-13 14:33

Reviewer performed review: 2021-10-19 03:46

Review time: 5 Days and 13 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No
Peer-reviewer	Peer-Review: [Y] Anonymous [ ] Onymous

| **statements** | Conflicts-of-Interest: [   ] Yes   [Y] No |

SPECIFIC COMMENTS TO AUTHORS

Title: ARTIFICIAL NEURAL NETWORK FOR PREDICTION OF ACUTE KIDNEY INJURY AFTER LIVER TRANSPLANTATION FOR CIRRHOSIS AND HEPATOCELLULAR CARCINOMA   Conclusion: Minor revision   Comments: This opinion review aims to explore the potential benefits of artificial neural network(ANN) models in predicting the occurrence of acute kidney injury(AKI) in the postoperative period of liver transplantation(LT) for cirrhosis and hepatocellular carcinoma(HCC). This is a well-written review, the authors clearly summarized the risk factors for AKI after LT, the basics of ANN, and the roles of ANN in the application for prediction and assessment of AKI after LT for cirrhosis and HCC. The only suggestion is whether the authors add a table(figure) to show the different roles(methods) of ANN in different stages(periods) of LT, such as multiple regression..