

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Hepatology*

**Manuscript NO:** 71935

**Title:** Risk factors and prediction of acute kidney injury after liver transplantation:  
Logistic regression and artificial neural network approaches

**Provenance and peer review:** Unsolicited manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 05975745

**Position:** Editorial Board

**Academic degree:** PhD

**Professional title:** Professor

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

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

**Manuscript submission date:** 2021-09-27

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-09-27 04:46

**Reviewer performed review:** 2021-09-27 04:52

**Review time:** 1 Hour

Scientific quality	<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 Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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<b>Peer-reviewer statements</b>	Peer-Review: [ <input checked="" type="radio"/> ] Anonymous [ <input type="radio"/> ] Onymous Conflicts-of-Interest: [ <input type="radio"/> ] Yes [ <input checked="" type="radio"/> ] No
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### **SPECIFIC COMMENTS TO AUTHORS**

1. Title should be generalized. i.e. Logistic regression is a type of Machine learning algorithm. 2. List out the contributions and the organization of the paper below the introduction paper. 3. Add an architecture depicting the system model of the proposed work. 4. You should emphasize the difference between other methods to clarify the position of this work further. 5. The Wide ranges of applications need to be addressed in the Introduction 6. Add the advantages of the proposed system in one quoted line for justifying the proposed approach in the Introduction section. 7. In the introduction, the findings of the present research work should be compared with the recent work of the same field towards claiming the contribution made. , kindly provide several references to substantiate the claim made in the abstract (that is, provide references to other groups who do or have done research in this area). 8. Authors can refer to some latest related works from reputed journals like IEEE/ACM Transactions, Elsevier, Inderscience, Springer, Taylor & Francis, etc. 9. Add some recent references.

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**Reviewer's code:** 05735339

**Position:** Peer Reviewer

**Academic degree:** PhD

**Professional title:** Assistant Professor

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

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

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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
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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

<b>Peer-reviewer statements</b>	Peer-Review: [ <input checked="" type="radio"/> ] Anonymous [ <input type="radio"/> ] Onymous Conflicts-of-Interest: [ <input type="radio"/> ] Yes [ <input checked="" type="radio"/> ] No
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## SPECIFIC COMMENTS TO AUTHORS

The manuscript is well written and clearly mentioned the problem statement. Also experimently verified the achieved results and shows the importance of regression model in prediction of acute kidney injury after decesed-donor liver transplantation. The manuscript is acceptable after the inclusion of following comments: 1. Abstract of the manuscript is too much lentghy. Author has to rewrite it and present their work within the limited number of words. 2. At the end of introduction section, you have to add the structure of the manuscript for better readability. 3. Author has to conclude the entire manuscript in a seperate section before the reference or acknowledgement. 4. Include some latest literature section and compare your result with recent work. 5. Author has to include some references like DOI: 10.4018/IJACI.2017040104 <https://doi.org/10.1016/j.jksuci.2020.01.003>

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**Reviewer's code:** 05207387

**Position:** Editorial Board

**Academic degree:** DSc, PhD

**Professional title:** Professor

**Reviewer's Country/Territory:** South Korea

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**Review time:** 5 Days and 10 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
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Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

<b>Peer-reviewer statements</b>	Peer-Review: [ <input checked="" type="radio"/> ] Anonymous [ <input type="radio"/> ] Onymous Conflicts-of-Interest: [ <input type="radio"/> ] Yes [ <input checked="" type="radio"/> ] No
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## SPECIFIC COMMENTS TO AUTHORS

Thanks for recommending me as a reviewer. This study aimed to identify pre and intraoperative risk factors for the occurrence of the acute kidney injury (AKI) after deceased-donor liver transplantation (DDLT), enabling the identification of patients at risk immediately after the end of the surgery. If the author completes the revision, the quality of the study will be further improved.

1. The intro section is well written. There are many different algorithms for machine learning. If the author describes the reason for using logistic regression analysis and artificial neural networks in more detail in the introduction section, it can help readers understand.
2. page 6: "To assess the effect of bivariate independent variables (graft quality, patients characteristics and intraoperative events) on the incidence of postoperative AKI, a model was fitted with bootstrapping with a cutoff of  $p < 0.10$ . " - The author needs to add references to the rationale for setting the significance level to 0.10 in this sentence.
3. Authors should add to the discussion section about the limitations of the study.