

PEER-REVIEW REPORT

Name of journal: *World Journal of Critical Care Medicine*

Manuscript NO: 69252

Title: Prediction of hospital mortality in intensive care unit patients from clinical and laboratory data: A machine learning approach

Provenance and peer review: Invited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05382551

Position: Editorial Board

Academic degree: PhD

Professional title: Associate Professor

Reviewer's Country/Territory: Spain

Author's Country/Territory: Brazil

Manuscript submission date: 2021-06-22

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-06-24 14:17

Reviewer performed review: 2021-06-25 12:45

Review time: 22 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 Grade E: Do not publish
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 type="checkbox"/> Minor revision <input checked="" 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="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 subject of the article is within the scope of the journal. It is well written and structured. However, in order to be accepted, the following changes must be considered: a) The bibliography used is generally not up-to-date. More current references should be used. b) A section on the state of the art on the subject of the article should be included. c) The data preparation phase should be explained: data normalization, dataset cleaning, variable selection, descriptive analysis of variables, end points ... d) The machine learning technique to be used, and how it will be used (hyperparameter configuration), should be briefly explained. e) In the discussion section, the results obtained should be evaluated in comparison with the current state of the problem treated and with the results of other similar studies. Likewise, the limitations of the study carried out must be established.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: *World Journal of Critical Care Medicine*

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Professional title: Associate Professor

Reviewer's Country/Territory: Spain

Author's Country/Territory: Brazil

Manuscript submission date: 2021-06-22

Reviewer chosen by: Jing-Jie Wang

Reviewer accepted review: 2021-12-18 21:26

Reviewer performed review: 2021-12-18 21:28

Review time: 1 Hour

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
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
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements

Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The paper can be accepted in current form