

PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Oncology*

Manuscript NO: 79082

Title: Machine learning-assisted ensemble analysis for the prediction of urinary tract infection in elderly patients with ovarian cancer after cytoreductive surgery

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06025907

Position: Peer Reviewer

Academic degree: BSc

Professional title: Academic Research, Research Assistant, Research Scientist, Teaching Assistant

Reviewer's Country/Territory: United States

Author's Country/Territory: China

Manuscript submission date: 2022-08-01

Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2022-09-29 20:34

Reviewer performed review: 2022-10-07 22:51

Review time: 8 Days and 2 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 Grade E: Do not publish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="checkbox"/>] Anonymous [<input type="checkbox"/>] Onymous Conflicts-of-Interest: [<input type="checkbox"/>] Yes [<input checked="" type="checkbox"/>] No

SPECIFIC COMMENTS TO AUTHORS

The manuscript is well-written. The authors found some excellent findings, including the vital factor for detecting urinary tract infections. These results suggest that the ML-based prediction model built using the RFC may be used to detect elderly ovarian cancer patients, guiding therapeutic decisions and improving clinical outcomes. This kind of study is essential to assist doctors in making decisions. Due to the growing number of patients per doctor, it is often challenging for doctors to monitor a patient's condition and make the best decision. The authors analyzed and used data from 674 elderly patients over 6years intervals. The inclusion and exclusion criteria were clear, and the data collection and quality assessment were well-designed. This can help them simplify the issue, assist the physician in picking the appropriate treatment, and improve clinical outcomes. The manuscript's structure is decent, but the research gap and the need for this solution are not convincing. Also, the novelty of the study is not apparent. The background study should include more related work on this application and approach. Also, data distribution is not clear in the manuscript. The data was split into a 70% training set and a 30% validation set, as stated by the authors. There is no mention of test data. Without any testing, the authors can not determine the feasibility or reliability of the model. Again, the author did not provide any hypothesis behind choosing this study's five mentioned models. Finally, authors should use proper citations instead of links in the body of the manuscript.

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Peer-review model: Single blind

Reviewer's code: 02942013

Position: Peer Reviewer

Academic degree: MD, MSc, PhD

Professional title: Associate Professor, Doctor

Reviewer's Country/Territory: Thailand

Author's Country/Territory: China

Manuscript submission date: 2022-08-01

Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2022-10-25 09:16

Reviewer performed review: 2022-11-07 12:53

Review time: 13 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
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 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

Overall, the scientific data is reliable. The English grammar might use some serious polishing. The citation style was improper. Regarding your statistical technique in references 15 and 16, could you may be explain as I don't grasp. The data in Tables 1 and 2 could be more clearly presented, and the text size should be adjusted. The text in Figures 2 through 6 and Supplementary Figure 1 was too tiny to read. The references were not formatted correctly.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: *World Journal of Clinical Oncology*

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Peer-review model: Single blind

Reviewer's code: 02942013

Position: Peer Reviewer

Academic degree: MD, MSc, PhD

Professional title: Associate Professor, Doctor

Reviewer's Country/Territory: Thailand

Author's Country/Territory: China

Manuscript submission date: 2022-08-01

Reviewer chosen by: Jin-Lei Wang

Reviewer accepted review: 2022-11-18 07:53

Reviewer performed review: 2022-11-18 08:03

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 revision manuscript is OK.