

PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 81109

Title: Severe/Critical COVID-19 Early Warning System Based on Machine Learning Algorithms Using Novel Imaging Scores

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05722553

Position: Editorial Board

Academic degree: Doctor, PhD

Professional title: Assistant Professor, Chief Doctor, Surgeon

Reviewer's Country/Territory: Romania

Author's Country/Territory: China

Manuscript submission date: 2022-11-05

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-11-20 19:57

Reviewer performed review: 2022-11-20 20:17

Review time: 1 Hour

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 Grade E: Do not publish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 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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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

Dear author's I was pleased to review your article and i have the following comments:
The subject is interesting. The abstract is very long. Please summarize. Please avoid the phrase "It is found that". Is very repetitive. Please explain if there are some confounder factors in predicting severe covid 19 disease. There are some pathologies with increase IL value coexisting with covid 19 disease.

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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: 2022-11-05

Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2023-01-19 22:26

Reviewer performed review: 2023-01-23 22:16

Review time: 3 Days and 23 Hours

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
Novelty 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 novelty

Creativity or innovation of this manuscript	<input checked="" type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation
Scientific significance of the conclusion in 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 scientific significance
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 type="checkbox"/> Yes <input checked="" 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

This manuscript describes developing a severe/critical early warning system for COVID-19. Multiple classifiers are used to evaluate the prediction model's practical utility. This study demonstrates that the CT Score can be used to evaluate COVID-19 patients. This study indicated that a prediction model based on an algorithm for machine learning and an upgraded CT score might predict the severe/critical development of covid-19 patients. The manuscript is well written with a clear indication of the importance and need of this study. Also, the analysis approach is presented very clearly. The authors mentioned the inclusion criteria and IRB approval which is appreciated. But there is some inconsistency in writing (algorithm names), and it has grammar issues. The manuscript needs to be proofread before publishing. The formatting of the text is not complete (the file contains a comment), and the numbering in the body is confusing. The authors should improve the figures' quality (especially figure 1).