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PEER-REVIEW REPORT

Name of journal: *World Journal of Virology*

Manuscript NO: 87979

Title: Use of Inflammatory Markers as Predictor for Mechanical Ventilation in COVID-19 Patients with Stages IIIb-V Chronic Kidney Disease?

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05382254
Position: Peer Reviewer
Academic degree: MD

Professional title: Assistant Professor, Associate Chief Physician, Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: United States

Manuscript submission date: 2023-09-04

Reviewer chosen by: Yu-Lu Chen

Reviewer accepted review: 2023-10-07 10:53

Reviewer performed review: 2023-10-11 15:51

Review time: 4 Days and 4 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Novelty of this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No novelty
Creativity or innovation of this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No creativity or innovation

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Scientific significance of the conclusion in this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No scientific significance
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 statements	Peer-Review: [Y] Anonymous [ ] Onymous
	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

In this retrospective study of 118 patients with COVID-19 combined with stage IIIb-V chronic kidney disease, the authors aimed to illustrate the correlation between CRP, ferritin, and D-dimer levels and invasive and noninvasive mechanical ventilation, thus demonstrating a good clinical predictive value for the need for mechanical ventilation in the COVID-19 combined with chronic kidney disease population. The article is better structured with adequate data. There are a few shortcomings, and the authors are advised to revise them. 1. The authors found that CRP, ferritin, LDH, and D-dimer were good predictors of invasive mechanical ventilation, and CRP, ferritin, and D-dimer were good predictors of noninvasive mechanical ventilation, and further clarification of the mechanism or rationale for this is recommended. 2. Further clarification is recommended as to why the authors chose patients with stages IIIb-V chronic kidney disease. 3. Proposed the addition of references at "In our study, the demographic variables were similar to the previous studies.", "Initial studies demonstrated increased levels of inflammatory markers in COVID-19 patients that directly correlated with the disease severity." and "Although markers such as interleukin-6 (IL-6) were initially

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explored, they are cost-prohibitive and thus unsuitable for routine monitoring in COVID-19 patients.". 4. It is suggested that the word "Discussion" in the ABSTRACT section be replaced by the word "Conclusion".