

PEER-REVIEW REPORT

Name of journal: *World Journal of Virology*

Manuscript NO: 66004

Title: Heart Failure in COVID-19 Patients: Critical Care Experience

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05935739

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: United Kingdom

Author's Country/Territory: United States

Manuscript submission date: 2021-03-19

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-03-19 20:56

Reviewer performed review: 2021-03-25 04:09

Review time: 5 Days and 7 Hours

Scientific quality	[<input checked="" type="radio"/>] Grade A: Excellent [<input type="radio"/>] Grade B: Very good [<input type="radio"/>] Grade C: Good [<input type="radio"/>] Grade D: Fair [<input type="radio"/>] Grade E: Do not publish
Language quality	[<input checked="" type="radio"/>] Grade A: Priority publishing [<input type="radio"/>] Grade B: Minor language polishing [<input type="radio"/>] Grade C: A great deal of language polishing [<input type="radio"/>] Grade D: Rejection
Conclusion	[<input checked="" type="radio"/>] Accept (High priority) [<input type="radio"/>] Accept (General priority) [<input type="radio"/>] Minor revision [<input type="radio"/>] Major revision [<input type="radio"/>] Rejection
Re-review	[<input checked="" type="radio"/>] Yes [<input type="radio"/>] No
Peer-reviewer	Peer-Review: [<input checked="" type="radio"/>] Anonymous [<input type="radio"/>] Onymous



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statements

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

SPECIFIC COMMENTS TO AUTHORS

The findings in the article are original and are based on the literature review. The quality of the study is very good and methodology is used as per standards. It is evident that authors understand their limitations which has been mentioned clearly.

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Manuscript NO: 66004

Title: Heart Failure in COVID-19 Patients: Critical Care Experience

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03967085

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Assistant Professor, Chief Doctor

Reviewer's Country/Territory: Bulgaria

Author's Country/Territory: United States

Manuscript submission date: 2021-03-19

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-03-19 05:28

Reviewer performed review: 2021-03-27 17:32

Review time: 8 Days and 12 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
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input 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 checked="" type="checkbox"/> Accept (High priority) <input 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
Peer-reviewer	Peer-Review: <input type="checkbox"/> Anonymous <input checked="" type="checkbox"/> Onymous



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

SPECIFIC COMMENTS TO AUTHORS

The systematic review article is consistent within itself. The methods are valid and the criteria are fulfilled. The references are relevant and recent. The cited sources are referenced correctly. Appropriate and key studies are included. The paper is comprehensive, the flow is logical and the data is presented critically. However, there are some specific comments on weaknesses of the article and what could be improved:

Major points - none Minor points 1. Why the discussion is divided further?

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Title: Heart Failure in COVID-19 Patients: Critical Care Experience

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03498422

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Italy

Author's Country/Territory: United States

Manuscript submission date: 2021-03-19

Reviewer chosen by: Ya-Juan Ma

Reviewer accepted review: 2021-03-27 17:36

Reviewer performed review: 2021-03-27 21:58

Review time: 4 Hours

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

statements

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

SPECIFIC COMMENTS TO AUTHORS

The Authors wrote a systematic review on HF and COVID-19, including both patients with preexisting HF infected by SARS-CoV2 and patients with de novo HF due to SARS-CoV2 infection. The topic is interesting, even though the analysis and presentation should be significantly improved. When the Authors divide the 26 studies into 4 categories, it is not completely clear the difference between the first ("studies highlighting care needs that require ICU level of care and outcomes in hospitalized COVID-19 patients") and the second category ("studies reporting outcomes in COVID-19 patients admitted to ICU"). Moreover, ref no.6 was present in both. Does the first category refer to hospitalized patients in general, while the second to ICU patients? Please better specify the distinction between the two. The paragraph on "Increased Risk of de novo Heart Failure in COVID-19 Patients" seems to refer to hospitalized patients because of COVID-19 in general, including patients with pre-existing HF and not only with de novo HF, so that the title should be changed. In the paragraph on "Increased Risk of de novo Heart Failure in COVID-19 Patients" the sentence "The proportion of patients with heart failure varied from 4% to 21%" is not clear and should be rephrased (if I understand correctly) as "The proportion of patients with PRE-EXISTING heart failure varied from 1% to 21%" (please note also that the lowest percentage reported in Table 1 was 1%, not 4%). The discussion is quite long compared to the previous paragraphs; in particular, the discussion about POCUS and echocardiography should be shortened. The Authors did not discuss the role of natriuretic peptide for diagnosis and risk stratification in HF/COVID-19 patients, giving also little space to troponin assessment. These highly reproducible, robust biomarkers should not be neglected in this patient population.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Manuscript NO: 66004

Title: Heart Failure in COVID-19 Patients: Critical Care Experience

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03498422

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Italy

Author's Country/Territory: United States

Manuscript submission date: 2021-03-19

Reviewer chosen by: Man Liu

Reviewer accepted review: 2021-05-10 15:01

Reviewer performed review: 2021-05-10 17:10

Review time: 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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
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



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SPECIFIC COMMENTS TO AUTHORS

The Authors addressed all comments and improved the manuscript