PEER-REVIEW REPORT

Name of journal: *World Journal of Virology*

Manuscript NO: 80940

Title: Utility of cardiac bioenzymes in predicting cardiovascular outcomes in SARS-CoV-2

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06269417

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Poland

Author's Country/Territory: Turkey

Manuscript submission date: 2022-10-19

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-10-19 09:50

Reviewer performed review: 2022-10-19 11:00

Review time: 1 Hour

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish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

Scientific significance of the conclusion in this manuscript	[ ] Grade A: Excellent [ ] 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

It is an interesting letter to the editor with high scientific value. However, I would suggest some changes in order to improve the manuscript: In the first sentence I would suggest to give the readers what this review the authors are mentioning is about.

"   The effects of the coronavirus disease 2019 (COVID-19) pandemic are still being felt. In this process, the relationship between COVID 19 and cardiovascular diseases has been an important issue. Therefore, cardiac biomarkers and cardiac imaging have an important place in the diagnosis phase." - These sentences are very general and I would suggest the authors to be more specific or to delete this fragment.   "   cardiac disease.In this review," -> cardiac disease. In this review, (a space is missing)   At the end of the manuscript I would suggest to add some summary/conclusions of the editorial.

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish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

Scientific significance of the conclusion in this manuscript	[ ] Grade A: Excellent [ ] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No scientific significance
Language quality	[Y] Grade A: Priority publishing [ ] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [Y] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Re-review	[ ] Yes [Y] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous
	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

Title of the Letter is precise and reflect the core subject matter of the manuscript.   The abstract is precise and summarizes the manuscript. However, one addition of one line regarding "importance of cardiac imaging along with biomarkers rather biomarkers alone" would have added focus of the manuscript.   The manuscript adequately mentions the introduction and significance of COVID-19 associated cardiac disease, cardiac biomarkers and cardiac imaging for diagnosis, prognosis as well as clinical outcome.   The authors have mentioned few cardiac biomarkers like Troponin, BNP and described them in brief regarding their physiological and pathological mechanism. The relations of COVID-19 and changes in these biomarkers in the body have been mentioned with brief explanations.   Also, authors have described the mechanism of effect of COVID-19 upon myocardium which is very clear and relevant.   The authors have mentioned advantages of few new cardiac bio enzyme and cardiac for the effective diagnosis and prognosis.   The conclusion of the authors in this manuscript is that cardiac biomarker alone could not be used as confirmatory diagnosis and determining prognosis for the COVID-19 associated myocardial disease though supported by ECG

which is an appropriate and relevant discussion here.   Also, author focus on further use and further study of new cardiac bio enzyme and cardiac imaging for the effective diagnosis for which further study should be required which is an appropriate discussion.

The manuscript cite appropriately the latest, important and authoritative references in the manuscript.