



PEER-REVIEW REPORT

Name of journal: *World Journal of Virology*

Manuscript NO: 77299

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

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06139511

Position: Peer Reviewer

Academic degree: PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: India

Author's Country/Territory: United States

Manuscript submission date: 2022-04-25

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-05-09 05:27

Reviewer performed review: 2022-05-11 08:58

Review time: 2 Days and 3 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 Grade E: Do not publish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 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No



**Baishideng
Publishing
Group**

7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA
Telephone: +1-925-399-1568
E-mail: bpgoffice@wjgnet.com
https://www.wjgnet.com

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

Manuscript entitled “Utility of Cardiac bioenzymes in predicting cardiovascular outcomes in SARS-CoV-2” is a comprehensive review on the various cardiac biomarkers that have gained importance in the context of COVID-19 and how they may be assessed to understand the the prognosis of COVID patients. The merit of this review is extensive literature search and lucid review of the important biomarkers. However certain edits would help to enhance the quality of the manuscript. While each biomarker has been dealt with sufficient information, details are missing. For example, where a specific biomarker is seen to be elevated in most patients showing poor prognosis, mentioning the exact range of the elevated level would help. Physiological ranges of the additional biomarkers and their COVID-related levels also may be mentioned . Fig 1 has no label to the X-axis and is difficult to ascertain the message being communicated.



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

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05630825

Position: Peer Reviewer

Academic degree: PhD

Professional title: Lecturer

Reviewer's Country/Territory: Romania

Author's Country/Territory: United States

Manuscript submission date: 2022-04-25

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-05-09 03:51

Reviewer performed review: 2022-05-17 05:55

Review time: 8 Days and 2 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 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



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Peer-reviewer statements	Peer-Review: [<input type="checkbox"/>] Anonymous [<input checked="" type="checkbox"/>] Onymous Conflicts-of-Interest: [<input type="checkbox"/>] Yes [<input checked="" type="checkbox"/>] No
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SPECIFIC COMMENTS TO AUTHORS

Subject: Cardiac bioenzymes act as surrogate markers for various cardiovascular complications associated with COVID-19. Cardiac bioenzymes at admission and their serial monitoring can help assess the disease severity and predict mortality in patients with COVID-19. This review summarizes the role of these bioenzymes in diagnosis, prognosis and clinical implications on outcomes of various cardiovascular complications associated with COVID-19. Regarding methodology, it is suggested to follow PRISMA strategy regarding systematic reviews. It is mentioned: "As of March 2022, a total of 510 papers were identified. Among them, only 58 papers were eligible to be included. Two independent trained physician reviewers were involved in screening and reviewing relevant articles" - Which were the criteria of inclusion or exclusion an article? Discussion is a missing part of the article: Does the manuscript interpret the findings adequately and appropriately, highlighting the key points concisely, clearly and logically? Are the findings and their applicability/relevance to the literature stated in a clear and definite manner? Is the discussion accurate and does it discuss the paper's scientific significance and/or relevance to clinical practice sufficiently?



RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: *World Journal of Virology*

Manuscript NO: 77299

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

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05630825

Position: Peer Reviewer

Academic degree: PhD

Professional title: Lecturer

Reviewer's Country/Territory: Romania

Author's Country/Territory: United States

Manuscript submission date: 2022-04-25

Reviewer chosen by: Yun-Xiaojian Wu

Reviewer accepted review: 2022-07-20 09:45

Reviewer performed review: 2022-07-28 14:29

Review time: 8 Days and 4 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 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 type="checkbox"/> Anonymous <input checked="" type="checkbox"/> Onymous



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https://www.wjgnet.com

statements

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

SPECIFIC COMMENTS TO AUTHORS

The authors improved their manuscript after first round of revision. Was not mentioned the PRISMA methodology per se, but the principles were respected. Giving the good quality of the article and the impressive work of the authors, my conclusion is for accepting for publication.