

PEER-REVIEW REPORT

Name of journal: *World Journal of Virology*

Manuscript NO: 77762

Title: SARS-CoV-2 infection and Diabetes: Pathophysiological mechanism of multi-system organ failure

Provenance and peer review: Unsolicited 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: 2022-05-18

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-05-19 00:49

Reviewer performed review: 2022-05-28 07:24

Review time: 9 Days and 6 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 Grade E: Do not publish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



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

The review article entitled “SARS-CoV-2 infection and Diabetes: Pathophysiological mechanism of multi-system organ failure” is a thorough review covering many aspects of diabetes induced pathophysiology as well as those related to COVID. The review has been written citing many clinical data and is rich in information. However even though the review is rich in data, a little more information on the mechanistic interrelationships (even if speculative) between the pathophysiology of diabetes and COVID would make the review more informative. The legends of the figures need to be more detailed.

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Title: SARS-CoV-2 infection and Diabetes: Pathophysiological mechanism of multi-system organ failure

Provenance and peer review: Unsolicited 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: 2022-05-18

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-06-05 04:29

Reviewer performed review: 2022-06-11 05:17

Review time: 6 Days

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
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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

In the review article "SARS-CoV-2 infection and Diabetes: Pathophysiological mechanism of multi-system organ failure" by Bipradas Roy and Sadia Afrin Runa, the current knowledge about COVID 19 intersection with highly frequent pathology represented by Diabetes are well summarized and the organ-specific possible molecular mechanisms of SARS-CoV-2 and diabetes-induced pathophysiology of several diseases of multiple organs, including the lungs, heart, kidney, brain, eyes, gastrointestinal system, and bones, and subsequent manifestation of multi-system organ failure are well presented and sustained inclusively by expressive and intuitive figures. The title reflects the main subject, the Abstract summarizes and reflects the work described in the manuscript, the Keywords reflect the focus of the manuscript, the Background adequately presents the status and significance of the study. Methods - is the weak point of this manuscript. It seems the authors did not have done a systematic search of the literature and did not follow a PRISMA search methodology. Discussion is probably included in each section presented. Still some aspects could be discussed, about the relevance of studies included in the review, limitations, future directions, etc. Figures, diagrams, and tables are appropriately illustrative of the paper contents. The manuscript cites appropriately the latest, important, and authoritative references in the introduction and discussion sections. Quality of manuscript organization and presentation coherently presented. Authors should have prepared their manuscripts according to manuscript type and the appropriate categories: PRISMA 2009 Checklist - Evidence-Based Medicine, Systematic review, Meta-Analysis;