

PEER-REVIEW REPORT

Name of journal: *Artificial Intelligence in Gastroenterology*

Manuscript NO: 75829

Title: Artificial Intelligence in Critically Ill Diabetic Patients: Current Status and Future Prospects

Provenance and peer review: Invited manuscript; externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03022180

Position: Editorial Board

Academic degree: FAASLD, MD, PhD

Professional title: Associate Professor, Professor

Reviewer's Country/Territory: Brazil

Author's Country/Territory: India

Manuscript submission date: 2022-02-16

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-02-16 18:07

Reviewer performed review: 2022-02-25 20:46

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 Grade E: Do not publish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

This mini-review entitled "Artificial Intelligence in Critically Ill Diabetic Patients: Current Status and Future Prospects" is a nice manuscript that describes all challenges to manage patients with diabetes mellitus in ICU and discuss the possibility of using artificial intelligence (AI) for the better control and to achieve a better prognosis for this prevalent disease in this specific population. The manuscript is well written and presents few spelling mistakes (like "diabetes milletus" in page 6, last line) and it also has up-to-date references. The authors discuss all gaps that exist in providing better outcomes for patients with diabetes mellitus in the ICU making a point by point review considering all the issues involved regarding glycemic control assessment. However, it was not clear what is currently the contribution of AI in this scenario. The authors draw a table describing the devices that might help but it is not well explained in the text how do they work and if they are already in use highlighting the evidence of benefits. And they only appear in the table. Also, the authors wrote an entire paragraph discussing the pitfalls of management of diabetes patients with COVID-19, which, I think, is out of the scope of the article. If the aim of the article was to promote a debate about AI, it is technically sound. However, I would expect a deeper discussion with better evidence of the linkage about AI and diabetes in the ICU.

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Peer-review model: Single blind

Reviewer's code: 06190308

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: India

Manuscript submission date: 2022-02-16

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-02-22 02:34

Reviewer performed review: 2022-03-02 02:48

Review time: 8 Days

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 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 type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" 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

This review comprehensively discusses the current applications and researches of AI in managing critically ill diabetic patients. Specifically, this review described a number of complex AI systems, and their clinical applications. The researches of AI in diabetes management in ICU is mainly discussed, with emphasis on blood glucose control. Furthermore this review analyzes the limitations of AI in managing critically ill diabetic patients, which enlightens the future researches. We believe this review has strong medical implications, however, there are still some limitations: 1. This review did not contain an introduction to AI algorithms applied in managing critically ill diabetic patients. Therefore, we propose to add a review of these AI algorithms.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Reviewer's code: 03022180

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Academic degree: FAASLD, MD, PhD

Professional title: Associate Professor, Professor

Reviewer's Country/Territory: Brazil

Author's Country/Territory: India

Manuscript submission date: 2022-02-16

Reviewer chosen by: Ji-Hong Liu

Reviewer accepted review: 2022-04-24 16:16

Reviewer performed review: 2022-04-24 20:24

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



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statements

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

SPECIFIC COMMENTS TO AUTHORS

The authors have made the suggested modifications that helped to improve the manuscript.