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-REVIEW REPORT

Name of journal: World Journal of Critical Care Medicine

Manuscript NO: 64199

Title: Predictive Modeling in Neurocritical Care Using Causal Artificial Intelligence

Reviewer's code: 00502770

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Associate Professor

Reviewer's Country/Territory: China

Author's Country/Territory: United States

Manuscript submission date: 2021-02-10

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-02-11 01:49

Reviewer performed review: 2021-02-11 02:36

Review time: 1 Hour

Scientific quality	[Y] Grade A: Excellent [ ] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[Y] Grade A: Priority publishing [ ] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[Y] Accept (High priority) [ ] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] 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

SPECIFIC COMMENTS TO AUTHORS

It is an excellent mini-review which focuses on building an actionable AI model for improvement of training and practices in Neuro-Critical Care. It is suggested that more details be discussed for applying AI models to solve clinical problems, with regard to either training or practices, in the field of NCC rather than CCM (Critical Care Medicine).

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-REVIEW REPORT

Name of journal: World Journal of Critical Care Medicine

Manuscript NO: 64199

Title: Predictive Modeling in Neurocritical Care Using Causal Artificial Intelligence

Reviewer's code: 05227716
Position: Editorial Board
Academic degree: PhD

Professional title: Associate Professor

Reviewer's Country/Territory: Turkey

Author's Country/Territory: United States

Manuscript submission date: 2021-02-10

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-02-19 18:30

Reviewer performed review: 2021-02-20 19:51

Review time: 1 Day and 1 Hour

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
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

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

SPECIFIC COMMENTS TO AUTHORS

In this mini-review, innovations in creating an AI model for Neuro-Critical Care that can be used to educate clinicians from a different perspective and increase clinical decision making are discussed. Current literature on the creation of a "digital twin" AI model as a tool for clinical decision making in the field of neurology is scarce. This mini-review could provide readers with an introduction to artificial intelligence applications in and outside of healthcare, the idea of the "digital twin" as a disease model, a methodology for the applicability of Artificial Intelligence in Neuro Critical Care. While using Digital Twin models in the fields of Cardiology and Endocrinology, attention has been drawn to the fact that a validated model has not yet been adopted in education and clinical practice in the NCC field.