

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Gastroenterology

**Manuscript NO:** 65354

**Title:** Deep learning vs conventional learning algorithms for clinical prediction in Crohn's disease: A proof-of-concept study

**Reviewer's code:** 04718383

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Chief Doctor, Professor

**Reviewer's Country/Territory:** China

**Author's Country/Territory:** Australia

**Manuscript submission date:** 2021-03-05

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-03-11 12:53

**Reviewer performed review:** 2021-03-11 14:02

**Review time:** 1 Hour

<b>Scientific quality</b>	<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 Grade E: Do not publish
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	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 is the first study to use an artificial neural network to predict response to anti-TNF therapy in Crohn's disease. This manuscript seems to be worth to be published after several minor modifications. 1. It is suggested that the authors estimate the sample size for the number of patients included in the study. 2. It is suggested that authors discuss more about artificial intelligence in predicting response to anti-TNF therapy in other diseases.

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Gastroenterology

**Manuscript NO:** 65354

**Title:** Deep learning vs conventional learning algorithms for clinical prediction in Crohn's disease: A proof-of-concept study

**Reviewer's code:** 03726547

**Position:** Peer Reviewer

**Academic degree:** MD, PhD

**Professional title:** Doctor

**Reviewer's Country/Territory:** China

**Author's Country/Territory:** Australia

**Manuscript submission date:** 2021-03-05

**Reviewer chosen by:** Ya-Juan Ma

**Reviewer accepted review:** 2021-03-17 07:56

**Reviewer performed review:** 2021-03-23 12:24

**Review time:** 6 Days and 4 Hours

<b>Scientific quality</b>	<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
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	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 is a proof-of-concept study that proves the feasibility of deep learning algorithms for clinical prediction in Crohn's disease (CD). Despite the limitations of poor clinical practicality, deep learning algorithms is worth looking forward to. The writing of this article is very good. A less important issue is that the proportion of male was 46% in the abstract section, but it seems that it should be 48% according to the results section. I believe this manuscript is worth publishing after minor revisions.