

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 62482

Title: Magnetic Resonance Imaging-based artificial intelligence model in rectal cancer

Reviewer's code: 00505755

Position: Editorial Board

Academic degree: PhD

Professional title: Senior Research Fellow

Reviewer's Country/Territory: Japan

Author's Country/Territory: China

Manuscript submission date: 2021-01-10

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-01-12 01:03

Reviewer performed review: 2021-01-21 06:59

Review time: 9 Days and 5 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 Grade E: Do not publish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 type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" 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

SPECIFIC COMMENTS TO AUTHORS

This review demonstrates that the application of Artificial Intelligence in the medical field is important. Figure 1 may be revised to show relationship between artificial neural networks and support vector machines in AI.

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 62482

Title: Magnetic Resonance Imaging-based artificial intelligence model in rectal cancer

Reviewer's code: 00225294

Position: Editorial Board

Academic degree: BM BCh, PhD

Professional title: Doctor, Professor, Senior Research Fellow

Reviewer's Country/Territory: Spain

Author's Country/Territory: China

Manuscript submission date: 2021-01-10

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2021-01-12 14:13

Reviewer performed review: 2021-01-21 17:37

Review time: 9 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 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
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

SPECIFIC COMMENTS TO AUTHORS

The authors provide a nice update on the use and applications of artificial intelligence (AI) in the diagnosis of rectal cancer (RC). The study is well presented and has interest for a broad audience. The schematic representation of the analytical steps and the cross-check with current data analysis and evaluation of the cancer stage are useful in providing the benefits from the introduction of AI strategies on the analysis of the MRI data. Main points: Authors should discuss the different algorithms available to develop AI analysis as well as the main bias of the technique. Discussion of the retrospective analysis of MRI data cohorts and the outcomes of the patients, if available, may reinforce the value of the review (or be the starting point for a new contribution provided authors obtain informed consent for data use. Alternatively, anonymous data analysis of MRI cohorts of RC).

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 62482

Title: Magnetic Resonance Imaging-based artificial intelligence model in rectal cancer

Reviewer's code: 00225294

Position: Editorial Board

Academic degree: BM BCh, PhD

Professional title: Doctor, Professor, Senior Research Fellow

Reviewer's Country/Territory: Spain

Author's Country/Territory: China

Manuscript submission date: 2021-01-10

Reviewer chosen by: Han Zhang (Part-Time Editor)

Reviewer accepted review: 2021-02-27 15:10

Reviewer performed review: 2021-02-28 08:16

Review time: 17 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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
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

SPECIFIC COMMENTS TO AUTHORS

The revised manuscript addressed and justifies the points provided in the first round.

The title, summary and content of the manuscript are of broad interest for readers, and reinforces the aim to introduce AI in current (perhaps complementary at the moment) evaluation of rectal cancer.