

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 63140

Title: The usefulness of artificial intelligence in gastric neoplasms

Reviewer's code: 05469187

Position: Peer Reviewer

Academic degree: MD

Professional title: Surgeon

Reviewer's Country/Territory: Italy

Author's Country/Territory: South Korea

Manuscript submission date: 2021-01-25

Reviewer chosen by: Man Liu

Reviewer accepted review: 2021-03-02 08:16

Reviewer performed review: 2021-03-09 10:22

Review time: 7 Days and 2 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 Grade E: Do not publish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

This minireview about the usefulness of artificial intelligence in gastric neoplasms is really exhaustive providing a great state of art about this technological developing of gastrointestinal endoscopy.

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 63140

Title: The usefulness of artificial intelligence in gastric neoplasms

Reviewer's code: 05400480

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Associate Chief Physician, Associate Professor

Reviewer's Country/Territory: China

Author's Country/Territory: South Korea

Manuscript submission date: 2021-01-25

Reviewer chosen by: Man Liu

Reviewer accepted review: 2021-03-01 16:26

Reviewer performed review: 2021-03-11 15:46

Review time: 9 Days and 23 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
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

In the manuscript, the authors have tried to review recent developments and the use of AI in gastric neoplasms from 3 parts. The second one, AI in Gastric Neoplasms, consists of five parts, being the main body of the review. The manuscript is quite well-organized, though there is still room for improvement. First, System. As there are so many AI systems mentioned, how to compare and interpret results from different systems? What is the strength of each system? Second, Prospect. Since the application of AI in the field of gastric neoplasms is promising, how has it practiced in clinical setting so far? What is the obstacle that may occur if it is about to become widely available? Third, Hard-to-Find GCs. In Hirasawa's study, the CNN correctly identified 71 of 77 gastric cancer lesions with an overall sensitivity of 92.2% and 70 of 71 lesions (98.6%) with a diameter of ≥ 6 mm, but only 1 of 6 (16.7%) for minute GCs. How is the detection of hard-to-find GCs, such as minute GCs, by various AI methods? Additionally, Language Skills. Language should be polished. For example, some descriptive words in figures are quite confusing. It will be better illustrated if corrections are made. For the reasons above, I suggest a minor revision in the present form.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 63140

Title: The usefulness of artificial intelligence in gastric neoplasms

Reviewer's code: 05400480

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Associate Chief Physician, Associate Professor

Reviewer's Country/Territory: China

Author's Country/Territory: South Korea

Manuscript submission date: 2021-01-25

Reviewer chosen by: Jia-Ru Fan

Reviewer accepted review: 2021-04-12 16:03

Reviewer performed review: 2021-04-12 16:56

Review time: 1 Hour

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 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 type="checkbox"/> Anonymous <input checked="" type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

This paper is a valuable mini-review about AI in GC. The available information about AI



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in GC were collected and summarized in this paper. After revision, this paper was polished and acceptable.