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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 57198

Title: IS ARTIFICIAL INTELLIGENCE THE FINAL ANSWER TO MISSED POLYPS IN COLONOSCOPY?

Reviewer's code: 05122080

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor, Instructor, Staff Physician

Reviewer's Country/Territory: Argentina

Author's Country/Territory: China

Manuscript submission date: 2020-05-28

Reviewer chosen by: AI Technique

Reviewer accepted review: 2020-06-01 23:00

Reviewer performed review: 2020-06-08 01:13

Review time: 6 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 Grade E: Do not publish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 type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" 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

This is an interesting review, addressing the role of Artificial Intelligence in missed lesions and the detection of polyps during colonoscopy. The paper is timely appropriated and the contents are clear and easy to understand. AI is actually a hot topic and this mini-review highlights recent research with promising results that will be surely incorporated to every day practice in colonoscopy in the near future. There are some comments I'd like to share with the authors: The title is a clear reflection of the main subject. The abstract has an extended introduction and jumps directly in to the conclusions. It can be a little bit more elaborate on the subject to be revised. Key words are accurate. Although Background and Results are adequate, clear and straightforward important methodological issues are missing such as criteria selection of the papers selected for revision and statistical analysis descriptions used in the paper. Background can incorporate a mention to interval carcinoma and Illustration and Tables can be added to the section that discusses the role of AI on missed polyps. Discussion is accurate but can be extended. The section about "strategies to minimise missed polyps" is conceptually right but can be put up together in a more elaborate way to strengthen its importance. Although the review is focused on the detection of missing lesions, a mention on the role of AI in the diagnosis and characterization of polyps (CADx) can be included. Biostatistics and use of SI units appear to be adequate. The manuscript cites appropriate references although there is continuous self-citing in a pair of passages of the discussion. Despite being easy to read with adequate organization and presentation the manuscript must be extensively revised and the language significantly improved. There are many spelling, grammar and syntaxes mistakes. Mini-reviews can include sections or specific mentions on areas such as: Current state of the art Highlight of future directions Key concepts Finally, despite being in nature a

mini-review and not a systematic review PRISMA 2009 checklist should be aspired and topics such as eligibility criteria, information sources, study selection and synthesis of results should be included.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 57198

Title: Is Artificial Intelligence The Final Answer To Missed Polyps In Colonoscopy?

Reviewer's code: 05122080

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor, Instructor, Staff Physician

Reviewer's Country/Territory: Argentina

Author's Country/Territory: China

Manuscript submission date: 2020-05-28

Reviewer chosen by: Ya-Juan Ma

Reviewer accepted review: 2020-07-28 12:08

Reviewer performed review: 2020-07-28 17:26

Review time: 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 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

Significant changes to the contents and language have been done enhancing the quality



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of the manuscript. Suggestions have been incorporated and upgraded. Contents are clear and easily read.