



PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 58311

Title: Use of artificial intelligence in improving adenoma detection rate during colonoscopy: might both endoscopists and pathologists be further helped?

Reviewer’s code: 05355683

Position: Peer Reviewer

Academic degree: PhD

Professional title: Professor

Reviewer’s Country/Territory: China

Author’s Country/Territory: Italy

Manuscript submission date: 2020-07-27

Reviewer chosen by: AI Technique

Reviewer accepted review: 2020-07-27 14:52

Reviewer performed review: 2020-07-27 20:17

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 Grade E: Do not publish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 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



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SPECIFIC COMMENTS TO AUTHORS

This short opinion review appears to be well written despite several spelling errors. It is certainly an interesting topic of using AI to assist adenoma diagnosis. I have a few minor comments below. 1. Full terminology should be given for “ADR” in Core tip section. 2. “This intelligence can extend to the algorithm becoming agnostic to manual data input and it can learn unsupervised by developing its own rules and classifiers [16,17].” The word of “unsupervised” is confusing as in most cases, supervised machine learning was actually used by telling the machine the normal and abnormal cases in the training phase. 3. More study details and discussions should be provided regarding Randomized Clinical Trials. 4. More technical details of those systems, such as WavSTAT, should be provided, so the readers could know more about what AI techniques and foundations are behind those systems.



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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: Italy

Manuscript submission date: 2020-07-27

Reviewer chosen by: AI Technique

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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 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



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SPECIFIC COMMENTS TO AUTHORS

Authors: Emanuele Sinagra, Matteo Badalamenti, Marcello Maida, Marco Spadaccini, Roberta Maselli, Francesca Rossi, Giuseppe Conoscenti, Dario Raimondo, Alessandro Repici, Andrea Anderloni The manuscript is an interesting and well written paper. AI is a hot topic and the authors have done a very good revision with clear and accurate concepts. However the addition of tables and figures may enhance the quality of the paper. The notion of interval carcinoma in the introduction section can be broadened. Definitions of AI, deep learning, deep network, ground truth can be also explained by means of a figure interlacing these concepts. A comparative table in the “How could artificial intelligence help in polyp characterization?” section can be added.



RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: World Journal of Gastroenterology

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Title: Use of artificial intelligence in improving adenoma detection rate during colonoscopy: might both endoscopists and pathologists be further helped?

Reviewer's code: 05355683

Position: Peer Reviewer

Academic degree: PhD

Professional title: Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Italy

Manuscript submission date: 2020-07-27

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2020-08-19 02:27

Reviewer performed review: 2020-08-19 02:32

Review time: 1 Hour

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



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All the previous comments have been addressed.



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Reviewer chosen by: Jia-Ping Yan

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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
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The new manuscript is a much more improved version. Response reviews are adequate and precise. The paper is easily read and the contents are clear. AI is a hot topic and this review provides a very good insight of a promising tool for endoscopy. However writing should be polished. There are a few spelling mistakes and spacing between words and after punctuation should be revised. Tables 1 and 2 are not available for revision. I wasn't able to find them either attached to the manuscript or as a separate file. Although a figure was added to help explaining definitions and the interlacing concepts of AI, deep learning, deep network and ground truth there is no mention of the proper figure in the manuscript (figure 1 should be added or included in section 2 "what is artificial Intelligence")