

## PEER-REVIEW REPORT

**Name of journal:** Artificial Intelligence in Gastrointestinal Endoscopy

**Manuscript NO:** 64870

**Title:** Progress and prospects of artificial intelligence in colonoscopy

**Reviewer's code:** 05901258

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

**Reviewer's Country/Territory:** United States

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

**Manuscript submission date:** 2021-04-29

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-05-04 15:45

**Reviewer performed review:** 2021-05-05 15:29

**Review time:** 23 Hours

<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 Grade E: Do not publish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 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
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" 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

## **SPECIFIC COMMENTS TO AUTHORS**

The article is dedicated to the important topic. Application of AI in the medical field can make a lot of procedures more efficient and errorfree. At the same time the paper can and should be improved. Below I list just some of the areas that should be corrected. 1. In my opinion it should have Introduction and Conclusion. 2. There are spelling errors that should be corrected. For example, irreplaceable. 3. Some sentences are too long and the structure of the sentence is lost. Page 3: With the continuous advancement of colonoscopy accessories, Magnetic Endoscopic Imaging (MEI) has become an effective tool for observing the shape of the colonoscopy in human body [14]. It is a real-time three-dimensional imaging colonoscopy-assisted positioning technology, in a meta-analysis of 2967 patients in 8 randomized controlled trials, the MEI technique showed advantages in the intubation rate of the cecum compared with the traditional technique, but MEI didn't have any distinct advantage for cecal intubation time and lower pain scores [15]. Page 7: The rapid development of electronic dyeing endoscopy technology, such as narrowband imaging technology (NBI), flexible spectral imaging color enhancement technology (FICE) and i-Scan digital contrast technology (iSCAN), etc. 4. Some statements are vague. For example, page 4. I think the authors should elaborate on what they mean here. It also provides a useful exploration for the application of AI in colonoscopy, and provides a step-by-step migration from artificial to intelligent. 5. Some statements are uncompleted: In order to achieve the goal of loopless and painless colonoscopy by borrowing the related techniques. 6. The following statement is unclear. There is no reference to it in the prior text. So, what it refers to? At present, there are no reports about the use of flexible endoscopic robots for its treatment, such as endoscopy mucosal resection and endoscopy submucosal dissection, etc.