

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Gastrointestinal Oncology*

**Manuscript NO:** 69050

**Title:** Development of artificial intelligence technology in diagnosis, treatment, and prognosis of colorectal cancer

**Reviewer's code:** 05327699

**Position:** Editorial Board

**Academic degree:** MNAMS, MS

**Professional title:** Additional Professor

**Reviewer's Country/Territory:** India

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

**Manuscript submission date:** 2021-06-15

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-06-15 08:33

**Reviewer performed review:** 2021-06-15 08:50

**Review time:** 1 Hour

<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 Grade E: Do not publish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 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
<b>Conclusion</b>	<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
<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



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#### **SPECIFIC COMMENTS TO AUTHORS**

Dear Author, 1. Is there any Smartphone based app for early detection of Polyp ? 2. What are the legal aspects associated with use of AI in Colorectal Ca? 3. What lies in the future to increase the sensitivity and specificity to identify CRC at an early stage ?  
Regards

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Gastrointestinal Oncology*

**Manuscript NO:** 69050

**Title:** Development of artificial intelligence technology in diagnosis, treatment, and prognosis of colorectal cancer

**Reviewer's code:** 06113941

**Position:** Peer Reviewer

**Academic degree:** MD, MSc

**Professional title:** Surgeon

**Reviewer's Country/Territory:** Greece

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

**Manuscript submission date:** 2021-06-15

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-06-19 17:25

**Reviewer performed review:** 2021-07-02 21:09

**Review time:** 13 Days and 3 Hours

<b>Scientific quality</b>	[ <input checked="" type="radio"/> ] Grade A: Excellent [ <input type="radio"/> ] Grade B: Very good [ <input type="radio"/> ] Grade C: Good [ <input type="radio"/> ] Grade D: Fair [ <input type="radio"/> ] Grade E: Do not publish
<b>Language quality</b>	[ <input checked="" type="radio"/> ] Grade A: Priority publishing [ <input type="radio"/> ] Grade B: Minor language polishing [ <input type="radio"/> ] Grade C: A great deal of language polishing [ <input type="radio"/> ] Grade D: Rejection
<b>Conclusion</b>	[ <input checked="" type="radio"/> ] Accept (High priority) [ <input type="radio"/> ] Accept (General priority) [ <input type="radio"/> ] Minor revision [ <input type="radio"/> ] Major revision [ <input type="radio"/> ] Rejection
<b>Re-review</b>	[ <input checked="" type="radio"/> ] Yes [ <input type="radio"/> ] No
<b>Peer-reviewer statements</b>	Peer-Review: [ <input checked="" type="radio"/> ] Anonymous [ <input type="radio"/> ] Onymous Conflicts-of-Interest: [ <input type="radio"/> ] Yes [ <input checked="" type="radio"/> ] No

## **SPECIFIC COMMENTS TO AUTHORS**

This is an exceptionally interesting review that will deepen our understanding of the contribution of artificial intelligence in colorectal cancer diagnosis, treatment, and prognosis. The manuscript is concise, well-written and structured, and the tables quickly grab the readers' attention. Based on recent literature, the authors have collected valuable information regarding the utility of artificial intelligence systems in improving colorectal cancer screening and early diagnosis. Interestingly, the study also focuses on AI-based novel applications for a more personalized and targeted approach in colorectal cancer patients. The authors should include in the advantages of robot-assisted surgery that the learning curve for robotic colorectal surgery appears to be shorter than that required for laparoscopic surgery. In addition, competition could drive the price of robotic surgical systems down. The authors should also include that more prospective studies with real-time use of AI models during colonoscopy will be necessary for further validation in the near future. Finally, the "black box" problem in machine learning raises several concerns regarding the widespread use of this novel technology in clinical practice. Overall, this is a high-quality review of in-depth and extensive research. Taking into consideration the points mentioned above, I recommend the publication of this article.