

## PEER-REVIEW REPORT

**Name of journal:** *Artificial Intelligence in Cancer*

**Manuscript NO:** 73956

**Title:** Artificial intelligence in colorectal cancer management

**Provenance and peer review:** Invited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 00505755

**Position:** Editorial Board

**Academic degree:** PhD

**Professional title:** Senior Research Fellow

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

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

**Manuscript submission date:** 2021-12-09

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-12-10 00:22

**Reviewer performed review:** 2021-12-10 01:45

**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<br><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 Grade E: Do not publish            |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<br><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)<br><input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection             |
| <b>Re-review</b>          | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No   |
| <b>Peer-reviewer</b>      | Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous   |



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statements

Conflicts-of-Interest: [ ] Yes [Y] No

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

This mini review describes on AI application in colorectal cancer management. It is an important topic. Detection of tumor budding may be described more in detail.

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**Reviewer's code:** 05521209

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

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

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

**Manuscript submission date:** 2021-12-09

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-12-10 15:53

**Reviewer performed review:** 2021-12-10 16:11

**Review time:** 1 Hour

|                           |   |
|---------------------------|---|
| <b>Scientific quality</b> | <input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good<br><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<br><input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection |
| <b>Conclusion</b>         | <input checked="" type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority)<br><input 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</b>      | Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous   |



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

The authors have addressed the emerging area and reviewed the recent studies in the area of application of AI and CRC. However few suggestions the authors can include to organize the review to make it best suited for publication in journal. 1. The Figure 1 is not reflected in the manuscript file. 2. The authors can plan to develop a suitable figure which depicts the application of AI and CRC 3. The authors can mention the timeline of the synthesis of review. 4. The authors can add a Summary table on recent studies. 5. Every side heading need not mention AI as it is understood that we are discussing on Artificial Intelligence

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**Reviewer's code:** 05469117

**Position:** Editorial Board

**Academic degree:** PhD

**Professional title:** Adjunct Professor, Chief Physician, Deputy Director

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

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

**Manuscript submission date:** 2021-12-09

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-12-12 08:25

**Reviewer performed review:** 2021-12-12 19:01

**Review time:** 10 Hours

|                           |   |
|---------------------------|---|
| <b>Scientific quality</b> | <input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good<br><input checked="" 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<br><input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection |
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| <b>Re-review</b>          | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   |
| <b>Peer-reviewer</b>      | Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous   |

statements

Conflicts-of-Interest: [ ] Yes [Y] No

## SPECIFIC COMMENTS TO AUTHORS

Thank you for giving me a chance to review this mini-review that underlines the importance of Artificial Intelligence in the management of colorectal cancer ,it aims to summarizes the research progress and clinical application value of AI in the investigation, early diagnosis, treatment, and management of CRC. The content is compact and easy to understand, which is also its main limitation.My major comments are as following: 1.Today is December 13, 2021.But none of the references of this manuscript are in 2021, and most of them are in 2019. Is there no progress this year? And the format of references are inconsistent, some provide DOI and some do not, for example , the DOI of reference 3 is DOI: 10.1002/ijc.25516. 2.There is a puzzling "Non-Native Speakers of English Editing Certificate".and is it a humor? 3.In page 3 lines 5,"The five-year survival time varies by country, between 4.3-5.3% and 2.7-4.9% for men and women, respectively."The survival rate shown here is so low, is it accurate?Does this include non metastatic colorectal cancer? 4.This manuscript does not involve the application of artificial intelligence in gene detection and bioinformatics analysis,and so on.