PEER-REVIEW REPORT

Name of journal: *Artificial Intelligence in Cancer*

Manuscript NO: 86942

Title: " AI in rectal cancer: what is the future?"

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03656589

Position: Peer Reviewer

Academic degree: FACS, MD

Professional title: Professor

Reviewer's Country/Territory: China

Author's Country/Territory: India

Manuscript submission date: 2023-07-15

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-08-16 07:51

Reviewer performed review: 2023-08-30 05:59

Review time: 13 Days and 22 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[ ] Yes [Y] No
Peer-reviewer	Peer-Review: [Y] Anonymous [ ] Onymous

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

SPECIFIC COMMENTS TO AUTHORS

The authors provide an overview of the future application of AI technology in rectal cancer. The selected topic is closely related to clinical practice, and it describes the role of AI technology in the diagnosis/treatment of rectal cancer more comprehensively, referring to a large number of the latest advances in the field of AI, and the narrative is more comprehensive, three-dimensional, and relevant. However, there are some problems, is that the authors should fully consider the medical ethics involved in the clinical application of AI, as well as how to solve the deviation and the series of doctor-patient disputes and legal proceedings caused by the application of AI technology in clinical practice? In fact, the application of AI technology needs to be guaranteed by a standardized legal system, and it is crucial to further regulate the clinical application of AI technology from the legal level.

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Reviewer's code: 03805385

Position: Peer Reviewer

Academic degree: FASCRS, MD, PhD

Professional title: Assistant Professor, Attending Doctor, Doctor, Medical Assistant, Postdoctoral Fellow, Research Associate, Senior Research Fellow, Surgeon

Reviewer's Country/Territory: Brazil

Author's Country/Territory: India

Manuscript submission date: 2023-07-15

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-08-30 13:36

Reviewer performed review: 2023-08-31 12:05

Review time: 22 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Novelty of this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No novelty
Creativity or innovation of this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No creativity or innovation

Scientific significance of the conclusion in this manuscript	[ ] Grade A: Excellent [ ] Grade B: Good [Y] Grade C: Fair [ ] Grade D: No scientific significance
Language quality	[Y] Grade A: Priority publishing [ ] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [ ] Minor revision [Y] Major revision [ ] Rejection
Re-review	[ ] Yes [Y] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous
	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

Thank you so much for the opportunity to review this paper: AI in rectal cancer: what is the future?" It is a good review, but with more suggestions that ideas. I think the authors should get deeper into the actual implementations of the Artificial Intelligence and what is going now at the moment, and the future of this tool. If you can modify this, and update the review, with the tools we are using today, it will be better.