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PEER-REVIEW REPORT

Name of journal: *Artificial Intelligence in Gastroenterology*

Manuscript NO: 80897

Title: Artificial intelligence applications in predicting the behavior of gastrointestinal cancers in pathology

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 01221925
Position: Editorial Board
Academic degree: AGAF, FACS, FICS, MD, PhD
Professional title: Professor
Reviewer's Country/Territory: Greece
Author's Country/Territory: Turkey

Manuscript submission date: 2022-10-16

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-10-16 16:22

Reviewer performed review: 2022-10-18 18:33

Review time: 2 Days and 2 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Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish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

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Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

This is an interesting paper reviewing the role of AI in evaluating pathological parameters related to the behavior of gastrointestinal (GI) cancers. The authors provide us a nice overview, especially regarding the role of AI in pathology, with more details regarding gastric and colorectal cancer. Could the authors please respond to the following questions: 1) From an organizational/structural perspective of the paper, the authors may wish to separate the discussion regarding the organ-specific cancers (gastric, colorectal, esophageal) and the evaluation of AI having to do with lymph node metastasis, tumor subtypes and tumor microenvironment and stroma ratio, as the latter are concepts that affect all different types of tumors. 2) The authors may wish to discuss in a separate paragraph the overall limitations of AI

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Reviewer's code: 05775860
Position: Editorial Board
Academic degree: PhD
Professional title: Assistant Professor
Reviewer's Country/Territory: China
Author's Country/Territory: Turkey

Manuscript submission date: 2022-10-16

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-10-31 00:38

Reviewer performed review: 2022-11-08 05:45

Review time: 8 Days and 5 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] 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) [ ] Minor revision [ ] Major revision [Y] Rejection
Re-review	[ ] Yes [Y] No

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Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The manuscript entitled "Artificial intelligence applications in predicting the behavior of gastrointestinal cancers in pathology" reports a review that summarizes current progresses on artificial intelligence (AI)-based applications in gastrointestinal cancers. The authors summarized AI application examples in various cancers, including esophageal cancer, gastric cancer, lymph node metastasis and colorectal cancer. The manuscript is well prepared. However, due to the scope of the journal, the manuscript is more suitable for publishing in a specialized journal.