

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

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Title: Requirements for implementation of artificial intelligence in the practice of gastrointestinal pathology

Reviewer's code: 02905103

Position: Peer Reviewer

Academic degree: MD

Professional title: Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Japan

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Reviewer chosen by: AI Technique

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Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<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
Conclusion	<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
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	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

Name of Journal: World Journal of Gastroenterology Manuscript Type: REVIEW
Requirements for implementation of artificial intelligence in the practice of gastrointestinal pathology This review tries to present challenges in the process of AI development, validation, and regulation, and summarize the overcome for its implementation in real-life GI pathology practice. It is well written but the following should be clarified: 1. The introduction should be shortened to make it concise and purpose driving. 2. Most of the contents of this review introduce and summarize the development, validation and application of different AI methods themselves, including machine learning, deep learning, CNNs and so on. However, the contents about those AI methods apply to gastrointestinal disease, such as gastric cancer and colon cancer are not comprehensive and thorough enough (The author simply listed the studies and did not discuss them). I suggest the authors to summarize roles of different AI methods in gastrointestinal disease diagnosis, staging, response evaluation and prognosis prediction, and discuss the advantages and disadvantages in each direction.