

PEER-REVIEW REPORT

Name of journal: *Artificial Intelligence in Gastroenterology*

Manuscript NO: 75504

Title: Machine Learning in EUS and the Pancreas: The New Frontier?

Provenance and peer review: Invited manuscript; externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05758354

Position: Peer Reviewer

Academic degree: PhD

Professional title: Academic Research, Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: United States

Manuscript submission date: 2022-02-01

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-02-08 02:31

Reviewer performed review: 2022-02-08 06:40

Review time: 4 Hours

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 Grade E: Do not publish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 checked="" type="checkbox"/> Grade A: Priority publishing <input 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	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous

statements

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

SPECIFIC COMMENTS TO AUTHORS

This is a mini review to summarize the recent advance in machine learning in endoscopic ultrasonography for pancreatic diseases. Machine learning techniques and detailed applications are systematically written. Also, some limitations are given from the author's point of view. So, I recommend accepting after minor revision. -Major issue: the term machine learning in the Introduction and Conclusion Sections mentioned need more. Merely discuss AI is not enough which expands the scope of this paper. -Recommended the authors make a schematic diagram to illustrate the advantages of machine learning or AI, compared to CT and MRI and transabdominal ultrasonography. The corresponding discussion needs to be written in the Introduction section. -Introduction: This part is logically confusing. Suggest to first introduce pancreatic diseases, then introduce diagnostic methods including EUS, then introduce AI, then introduce machine learning, and finally highlight the uniqueness of this review. -Conclusion: Recommended to replace the subtitle "Conclusion" with "Conclusion and Prospects", as the last paragraph also points out the limitations of this technology.

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Reviewer's code: 05740520

Position: Peer Reviewer

Academic degree: PhD

Professional title: Associate Professor

Reviewer's Country/Territory: India

Author's Country/Territory: United States

Manuscript submission date: 2022-02-01

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-02-08 08:46

Reviewer performed review: 2022-02-11 03:09

Review time: 2 Days and 18 Hours

Scientific quality	<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
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
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statements

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

SPECIFIC COMMENTS TO AUTHORS

The overall quality of the manuscript is good

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Provenance and peer review: Invited manuscript; externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05758135

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Japan

Author's Country/Territory: United States

Manuscript submission date: 2022-02-01

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-02-09 05:23

Reviewer performed review: 2022-02-12 07:48

Review time: 3 Days and 2 Hours

Scientific quality	<input checked="" type="checkbox"/> Grade A: Excellent <input 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 checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
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statements

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

SPECIFIC COMMENTS TO AUTHORS

This manuscript is a mini-review of the literature on the use of AI in the diagnosis of pancreatic diseases when using EUS, divided into visual recognition classification, procedure assistance and training. The listing procedure for review is thought to be correct. I would also say that it provides a sufficient amount of information in the content. However, since the papers listed in Table 1 are not numbered as references, the reader may not be able to refer to them without bibliographic information. All references in Table 1 should be numbered.