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

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<tr>
<th>Scientific quality</th>
<th>Grade A: Excellent</th>
<th>Grade B: Very good</th>
<th>Grade C: Good</th>
<th>Grade D: Fair</th>
<th>Grade E: Do not publish</th>
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<tbody>
<tr>
<td>Language quality</td>
<td>Grade A: Priority publishing</td>
<td>Grade B: Minor language polishing</td>
<td>Grade C: A great deal of language polishing</td>
<td>Grade D: Rejection</td>
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<tr>
<td>Conclusion</td>
<td>Accept (High priority)</td>
<td>Accept (General priority)</td>
<td>Minor revision</td>
<td>Major revision</td>
<td>Rejection</td>
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<td>Re-review</td>
<td>Yes</td>
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Peer-reviewer: Peer-Review: Anonymous
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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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: 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

[ ] Grade A: Excellent  [ ] Grade B: Very good  [ Y] Grade C: Good
[ ] Grade D: Fair  [ ] Grade E: Do not publish

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)  [ Y] Accept (General priority)
[ ] Minor revision  [ ] Major revision  [ ] Rejection

Re-review

[ Y] Yes  [ ] No

Peer-reviewer

Peer-Review: [ Y] Anonymous  [ ] Onymous
SPECIFIC COMMENTS TO AUTHORS
The overall quality of the manuscript is good
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: 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

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<th>Peer-Review: [ Y] Anonymous</th>
<th>[ ] Onymous</th>
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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.