

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 62186

Title: Artificial intelligence for early detection of pancreatic adenocarcinoma: The future is promising

Reviewer's code: 05260701

Position: Peer Reviewer

Academic degree: MD

Professional title: Attending Doctor

Reviewer's Country/Territory: Belgium

Author's Country/Territory: United States

Manuscript submission date: 2020-12-31

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-01-01 08:30

Reviewer performed review: 2021-01-03 19:55

Review time: 2 Days and 11 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 Grade E: Do not publish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 statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

Dear Editor, Thank you for giving me the opportunity to review the manuscript entitled “Artificial Intelligence For Early Detection Of Pancreatic Adenocarcinoma: The Future Is Promising” for your prestigious journal. In this well written Review article the authors summarize the available evidence about the role of AI in the diagnosis of pancreatic adenocarcinoma. This is a very interesting topic in a continuously evolving field. Moreover, in the second part of this review the authors present their future perspective about how AI models can be organised and implicated in clinical practice. The title reflects the main subject of the manuscript and the abstract summarizes well the subject of the paper. The used keywords reflect well the focus of the manuscript. This is a review paper so a strict structure of “Background - Methods - Results - Discussion” is not directly applicable, however the manuscript is well structured with clear and concise subheadings between different sections. I would suggest to move the section about the AI-assisted analysis of CT images before the respective section of EUS since it seems that there is much more available evidence about AI and CT than EUS. Regarding illustration and Tables I highly recommend the authors to provide at least one table summarizing the available evidence about the use of AI in diagnosis of PADC (EUS, CT, MRI). All cited studies should be included and their main characteristics (year, origin, study design, population, methods used, elements used to develop AI algorithm, outcomes and main results) should be reported aiming to provide the readership with an easily assessed summary of existing evidence, improving significantly the value of the review. I would also recommend to redesign Figure 3 since it is really hard to make any difference with Figure 2 without reading the legend; this should be more clear to first vision. I congratulate the authors for using all available and latest references, as well as for their appropriate use of grammar and language.

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 62186

Title: Artificial intelligence for early detection of pancreatic adenocarcinoma: The future is promising

Reviewer's code: 03820695

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: Japan

Author's Country/Territory: United States

Manuscript submission date: 2020-12-31

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-01-02 13:30

Reviewer performed review: 2021-01-08 06:19

Review time: 5 Days and 16 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
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

This paper nicely summarized recent topics of artificial intelligence (AI) in diagnosis of pancreatic ductal adenocarcinoma (PDAC). General problems in AI were summarized in detail along with many figures, whereas, unfortunately, there was no noteworthy table or figure regarding AI in diagnosis of PDAC. The author had better provide some tables and figures summarizing the latest findings about AI in diagnosis of PDAC (EUS, CT, MRI, pathology and molecular features).

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 62186

Title: Artificial intelligence for early detection of pancreatic adenocarcinoma: The future is promising

Reviewer's code: 03004110

Position: Editorial Board

Academic degree: FACS, MD

Professional title: Associate Professor, Surgeon

Reviewer's Country/Territory: Italy

Author's Country/Territory: United States

Manuscript submission date: 2020-12-31

Reviewer chosen by: Jin-Lei Wang

Reviewer accepted review: 2021-01-07 10:31

Reviewer performed review: 2021-01-13 13:36

Review time: 6 Days and 3 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
Conclusion	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input 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

SPECIFIC COMMENTS TO AUTHORS

I appreciate the work done. The topic is Worth of interest and this paper could allow a useful landscape on this field.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 62186

Title: Artificial intelligence for early detection of pancreatic adenocarcinoma: The future is promising

Reviewer's code: 03820695

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: Japan

Author's Country/Territory: United States

Manuscript submission date: 2020-12-31

Reviewer chosen by: Le Zhang

Reviewer accepted review: 2021-01-29 02:32

Reviewer performed review: 2021-01-29 02:43

Review time: 1 Hour

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
Conclusion	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
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

SPECIFIC COMMENTS TO AUTHORS



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The authors responded appropriately to the reviewers' suggestions.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 62186

Title: Artificial intelligence for early detection of pancreatic adenocarcinoma: The future is promising

Reviewer's code: 05260701

Position: Peer Reviewer

Academic degree: MD

Professional title: Attending Doctor

Reviewer's Country/Territory: Belgium

Author's Country/Territory: United States

Manuscript submission date: 2020-12-31

Reviewer chosen by: Le Zhang

Reviewer accepted review: 2021-01-28 12:13

Reviewer performed review: 2021-01-29 21:02

Review time: 1 Day and 8 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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
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

SPECIFIC COMMENTS TO AUTHORS

The authors have addressed previous comments raised by the reviewers and the manuscript can now be accepted in its current form.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 62186

Title: Artificial intelligence for early detection of pancreatic adenocarcinoma: The future is promising

Reviewer's code: 03004110

Position: Editorial Board

Academic degree: FACS, MD

Professional title: Associate Professor, Surgeon

Reviewer's Country/Territory: Italy

Author's Country/Territory: United States

Manuscript submission date: 2020-12-31

Reviewer chosen by: Le Zhang

Reviewer accepted review: 2021-01-28 11:22

Reviewer performed review: 2021-02-04 10:55

Review time: 6 Days and 23 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
Conclusion	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
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

SPECIFIC COMMENTS TO AUTHORS



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I appreciated the work done. In my opinion the paper can be considered for publication.