Name of journal: World Journal of Gastroenterology
Manuscript NO: 78385
Title: Ultrasound-based Artificial Intelligence in Gastroenterology and Hepatology
Provenance and peer review: Invited Manuscript; Externally peer reviewed
Peer-review model: Single blind
Reviewer’s code: 02446627
Position: Editorial Board
Academic degree: FACP, MD, MPhil
Professional title: Full Professor, Professor
Reviewer’s Country/Territory: United States
Author’s Country/Territory: China
Manuscript submission date: 2022-07-01
Reviewer chosen by: AI Technique
Reviewer accepted review: 2022-07-01 17:27
Reviewer performed review: 2022-07-03 13:29
Review time: 1 Day and 20 Hours

<table>
<thead>
<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[ ] Grade E: Do not publish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>
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<td></td>
<td>[ ] Minor revision</td>
<td>[ ] Major revision</td>
<td>[ ] Rejection</td>
<td></td>
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</tbody>
</table>

Re-review
[ ] Yes  [ ] No

Peer-reviewer
Peer-Review: [ ] Anonymous  [ ] Onymous
The author has addressed the emerging modality very nicely. The table summation of the studies are excellent. Minor language polishing is needed. Seems AI is the future.
PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 78385

Title: Ultrasound-based Artificial Intelligence in Gastroenterology and Hepatology

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Peer-review model: Single blind

Reviewer’s code: 02461627

Position: Peer Reviewer

Academic degree: MD

Professional title: Professor

Reviewer’s Country/Territory: United Arab Emirates

Author’s Country/Territory: China

Manuscript submission date: 2022-07-01

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-07-01 15:41

Reviewer performed review: 2022-07-05 01:22

Review time: 3 Days and 9 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
[ Y] Grade C: A great deal of language polishing  [ ] Grade D: Rejection

Conclusion

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

Re-review

[ Y] Yes  [ ] No

Peer-reviewer

Peer-Review: [ Y] Anonymous  [ ] Onymous
SPECIFIC COMMENTS TO AUTHORS

The manuscript entitled “Ultrasound-based Artificial Intelligence in Gastroenterology and Hepatology” and authored by Liu et al reviewed the basic technical knowledge about AI and its clinical application in the ultrasound of liver and gastroenterology. Authors then discussed the challenges and future perspectives of AI. More detailed insights into the molecular mechanisms of gastroenterological lesions especially of liver, colon & pancreas are lacking. This notion should be thoroughly covered where data from the following studies should be integrated: PMID: 33338743, https://thescipub.com/abstract/ajptsp.2006.21.25, PMID: 32837538, PMID: 21258076, PMID: 33782460, PMID: 32460808, PMID: 17151316, PMID: 17151319, https://www.scirp.org/journal/paperinformation.aspx?paperid=7085, PMID: 34202689, PMID: 33255507, https://doi.org/10.1186/s41936-020-00177-9, PMID: 34639131, PMID: 26034352, https://doi.org/10.4236/ajps.2018.96091, https://doi.org/10.3390/antiox11061125, PMID: 22812448. It’d be useful to enrich the discussion with GI patents. For example, the following patents (and/or others) may prove useful: US Patent 20210015835, US patent 20200276133, US patent 20200276133. One main issue is the lack of details like the time range of publication this review article covered, what keywords did the search for literature include, what were the inclusion criteria, how many studies did the search find and how many were primary research vs review articles, of those how many were selected for evaluation in this study, and finally what criteria were used for selecting the articles that were reviewed (was it the subject of the study, its novelty or both). Other than that, this is a well-thought through review that would make an interesting read if fully revised. Other comments • Proofreading is required. • References need updating, the studies suggested earlier in this report
will also help with that serious issue.
**RE-REVIEW REPORT OF REVISED MANUSCRIPT**

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**Position:** Peer Reviewer  
**Academic degree:** MD  
**Professional title:** Professor  
**Reviewer’s Country/Territory:** United Arab Emirates  
**Author’s Country/Territory:** China  
**Manuscript submission date:** 2022-07-01  
**Reviewer chosen by:** Ze-Mao Gong  
**Reviewer accepted review:** 2022-08-16 04:06  
**Reviewer performed review:** 2022-08-16 04:13  
**Review time:** 1 Hour

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<td>Major revision</td>
<td>Rejection</td>
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<td>Peer-reviewer statements</td>
<td>Peer-Review: Y Anonymous</td>
<td>Onymous</td>
<td>Conflicts-of-Interest: Y Yes</td>
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SPECIFIC COMMENTS TO AUTHORS
none