

## PEER-REVIEW REPORT

**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

<b>Scientific quality</b>	<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 Grade E: Do not publish
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



**Baishideng  
Publishing  
Group**

7041 Koll Center Parkway, Suite  
160, Pleasanton, CA 94566, USA  
**Telephone:** +1-925-399-1568  
**E-mail:** [bpgoffice@wjgnet.com](mailto:bpgoffice@wjgnet.com)  
<https://www.wjgnet.com>

statements

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

#### **SPECIFIC COMMENTS TO AUTHORS**

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

**Provenance and peer review:** Invited Manuscript; Externally peer reviewed

**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

<b>Scientific quality</b>	<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
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous

statements

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

## 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://thescpub.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

**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:** 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:** Ze-Mao Gong

**Reviewer accepted review:** 2022-08-16 04:06

**Reviewer performed review:** 2022-08-16 04:13

**Review time:** 1 Hour

<b>Scientific quality</b>	<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
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



**Baishideng  
Publishing  
Group**

7041 Koll Center Parkway, Suite  
160, Pleasanton, CA 94566, USA  
**Telephone:** +1-925-399-1568  
**E-mail:** [bpgoffice@wjgnet.com](mailto:bpgoffice@wjgnet.com)  
<https://www.wjgnet.com>

#### **SPECIFIC COMMENTS TO AUTHORS**

none