

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Gastroenterology

**Manuscript NO:** 63522

**Title:** Role of AI in multidisciplinary imaging diagnosis of gastrointestinal diseases

**Reviewer's code:** 03253752

**Position:** Editorial Board

**Academic degree:** FEBG, MD, MSc, PhD

**Professional title:** Assistant Professor

**Reviewer's Country/Territory:** Canada

**Author's Country/Territory:** Spain

**Manuscript submission date:** 2021-01-28

**Reviewer chosen by:** Ya-Juan Ma

**Reviewer accepted review:** 2021-03-03 00:12

**Reviewer performed review:** 2021-03-12 03:48

**Review time:** 9 Days and 3 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 Grade E: Do not publish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 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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input type="checkbox"/> Anonymous <input checked="" 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  
<https://www.wjgnet.com>

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

Very good and well written manuscript describing the role of artificial intelligence (AI) in multidisciplinary imaging diagnosis of gastrointestinal diseases. A few comments to increase the strength of the manuscript: I would suggest that the authors incorporate a more thorough description of the AI solutions in IBD and especially in ulcerative colitis. There are many new papers investigating the use of CNN models in classification of UC endoscopic severity by using still images and/or videos. I also suggest a more extended description of applications of AI in IBD Pathology (i.e. 1) Maeda Y, Kudo SE, Mori Y, et al. Fully automated diagnostic system with artificial intelligence using endocytoscopy to identify the presence of histologic inflammation associated with ulcerative colitis (with video). *Gastrointestinal endoscopy*. 2019 Feb 1;89(2):408-15. 2) Bossuyt P, Nakase H, Vermeire S et al. Automatic, computer-aided determination of endoscopic and histological inflammation in patients with mild to moderate ulcerative colitis based on red density. *Gut* 2020; 69: 1778-86.

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Gastroenterology

**Manuscript NO:** 63522

**Title:** Role of AI in multidisciplinary imaging diagnosis of gastrointestinal diseases

**Reviewer's code:** 00068559

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Professor

**Reviewer's Country/Territory:** China

**Author's Country/Territory:** Spain

**Manuscript submission date:** 2021-01-28

**Reviewer chosen by:** Ya-Juan Ma

**Reviewer accepted review:** 2021-03-03 02:11

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**Review time:** 12 Days and 12 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 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<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

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

In the manuscript, the author reviewed the current evidence on the application of AI to the interpretation of radiology, endoscopy and histological images of the GI tract. The review was comprehensive and objective. It's helpful for understanding the application of AI in imaging diagnosis of gastrointestinal diseases.