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PEER-REVIEW REPORT

Name of journal: Artificial Intelligence in Gastroenterology

Manuscript NO: 57994

Title: Digital histology in celiac disease – a practice changer

Reviewer's code: 03725842

Position: Editorial Board

Academic degree: PhD

Professional title: Associate Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Romania

Manuscript submission date: 2020-07-01

Reviewer chosen by: Jin-Lei Wang

Reviewer accepted review: 2020-07-03 02:31

Reviewer performed review: 2020-07-04 02:41

Review time: 1 Day

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] 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) [Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

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SPECIFIC COMMENTS TO AUTHORS

Histology in celiac disease (CD) diagnosis is hampered by several pitfalls, from low adherence to biopsy sampling recommendations and reporting of results, to significant inter-observer variability. This study showed that, a quantitative, computer-assisted histological assessment of mucosal biopsies could overcome many of the current limitations of conventional histology, with a about 90% case-detection accuracy. However, It is suggested that the authors present the accuracy of this method obtained by previous researchers in the form of a forest map. In addition, the abbreviation that first appears should show the full name.

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PEER-REVIEW REPORT

Name of journal: Artificial Intelligence in Gastroenterology

Manuscript NO: 57994

Title: Digital histology in celiac disease – a practice changer

Reviewer's code: 05123031
Position: Editorial Board
Academic degree: MD, PhD

Professional title: Associate Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Romania

Manuscript submission date: 2020-07-01

Reviewer chosen by: Jin-Lei Wang

Reviewer accepted review: 2020-07-03 08:18

Reviewer performed review: 2020-07-09 04:08

Review time: 5 Days and 19 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No
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SPECIFIC COMMENTS TO AUTHORS

Manuscript Number: 57994 Title: Digital histology in celiac disease – a practice changer

There is no doubt that artificial intelligence plays an increasingly indispensable role in the field of medicine and can further improve the development of medicine. The authors analyzed and evaluated the role of artificial intelligence in the diagnosis of intestinal diseases, using celiac disease as an example. By analyzing published findings, the authors conclude that computer-assisted histology can significantly improve the assessment of mucosal architectural injury and inflammation in celiac disease patients, both for diagnosis and follow-up. However, as an editorial, the author should list the latest achievements in the application of artificial intelligence in the diagnosis of intestinal diseases. After all, the research of artificial intelligence in disease diagnosis has mushroomed and is in a stage of rapid development. In addition to analyzing the quasi-determination of artificial intelligence in disease diagnosis, the author should also point out the problems in the current application of artificial intelligence, so as to provide some references for the clinical application of artificial intelligence.