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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 58302

Title: Artificial intelligence technique in the detection of early esophageal cancer

Reviewer's code: 05382551
Position: Editorial Board
Academic degree: PhD

Professional title: Associate Professor

Reviewer's Country/Territory: Spain

Author's Country/Territory: China

Manuscript submission date: 2020-07-16

Reviewer chosen by: AI Technique

Reviewer accepted review: 2020-07-17 10:46

Reviewer performed review: 2020-07-18 21:44

Review time: 1 Day and 10 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [ ] Grade C: Good [Y] Grade D: Fair [ ] Grade E: Do not publish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

SPECIFIC COMMENTS TO AUTHORS

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The article describes the use of artificial intelligence techniques applied to the study of esophageal cancer. The topic covered is within the scope of the journal. The bibliographic review is quite extensive and complete. However, the item cannot be accepted in its current state: a) There are spelling errors. For example: "key words" b) It is not indicated if it is a systematic or narrative review. Furthermore, it is necessary to indicate how the bibliographic search was carried out: sources used, words used to carry out the search, period of time covered by the search, ... c) The structure of the presentation is not explained in the introduction. d) It would be interesting to use a table that summarizes the main aspects of each article: AI techniques used, fields of application, author, year of publication ... e) A discussion is necessary to explain the advantages and disadvantages of AI techniques compared to traditional techniques currently used. f) The conclusions are too brief and do not summarize all the main results obtained in the review. g) Table 1 is poorly formatted. There is data that is not well collated (Training dataset Validation dataset), acronyms are not referenced (they are simply listed at the end), and there is a space between the title and "Table 1".

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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 58302

Title: Artificial intelligence technique in the detection of early esophageal cancer

Reviewer's code: 02992848

Position: Peer Reviewer

Academic degree: MD

Professional title: Staff Physician

Reviewer's Country/Territory: Taiwan

Author's Country/Territory: China

Manuscript submission date: 2020-07-16

Reviewer chosen by: AI Technique

Reviewer accepted review: 2020-07-17 01:10

Reviewer performed review: 2020-07-24 03:32

Review time: 7 Days and 2 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[Y] Grade A: Priority publishing [ ] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [Y] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Re-review	[ ] Yes [Y] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

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Reviewer's report Journal: World Journal of Gastroenterology Manuscript ID: No. 58302 Title: Artificial intelligence technique in the detection of early esophageal cancer Date:2020/7/24 Reviewer's report: Review of Artificial intelligence technique in the detection of early esophageal cancer This is an interesting manuscript as it is a comprehensive report on the incorporation of modern AI technique in the detection of early esophageal squamous cell ca . Thou, this is a well analysis and studies on the different type of computer aided diangosis (CAD) on the detection of various pattern of early ESCC. There are some limitation in this study. As they fail to identify which technique is the most feasible and close to clinical practice. Nevertheless, this manuscript will add to growing knowledge about the impact of AI in the future diagnosis of early ESCC. hopefully, this will eventual lay as a foundation for the future treatment in ESCC. However, there are a few issues in the manuscript that need to be addressed prior to publication. 1. I was more concern on Esophageal squamous dysplasia (ESD) and early ESCC. As this was the most common esophageal cancer in Asia, and Asia have the most number of esopahgeal cancer in the world. And at present ESCC prognosis remain so poor. You mention in several authors studies, which do you think is the most promising in future clinical treatment.? Level of interest:An article of importance in its field Quality of written English: good Statistical review:Yes, and I have assessed the statistics in my report. Declaration of competing interests: I declare that I have no competing interests

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RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 58302

Title: Artificial intelligence technique in the detection of early esophageal cancer

Reviewer's code: 05382551
Position: Editorial Board
Academic degree: PhD

Professional title: Associate Professor

Reviewer's Country/Territory: Spain

Author's Country/Territory: China

Manuscript submission date: 2020-07-16

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2020-08-24 15:29

Reviewer performed review: 2020-08-24 15:46

Review time: 1 Hour

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 [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [Y] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

Dear Author: Suggested fixes have been completed correctly so I think it can be

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accepted for publication. Best regards