

## PEER-REVIEW REPORT

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

**Manuscript NO:** 57164

**Title:** 2020 an endoscopic odyssey: The role of artificial intelligence in the diagnosis of oesophageal neoplasia

**Reviewer's code:** 05060546

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

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

**Author's Country/Territory:** United Kingdom

**Manuscript submission date:** 2020-05-27

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2020-05-31 13:31

**Reviewer performed review:** 2020-06-10 14:17

**Review time:** 10 Days

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 ] Grade E: Do not publish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



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## **SPECIFIC COMMENTS TO AUTHORS**

This is the well written article of application of artificial intelligence (AI) for diagnosing early oesophageal neoplasia. The current advancement of imaging methods for diagnosing neoplasm of Barrett esophagus and squamous cell neoplasia are well covered and recent application of artificial intelligence have favorable results. This paper have reviewed the initial trial of diagnosing each neoplasm by using high volume image datasets. And by these presented results, the diagnosing algorism seems to have been completed the aim. But the real time detection of the early oesophageal cancer have difficulty in sensitivity and frequency of false positive lesions. Ideally, the used algorism for each studies needed to be shown in the tables. The problem of the algorism for diagnose and detection, which analyze compressed images because of low machine power have to been solved in the future. In the deep learning methods, the number of the datasets which usually collected retrospectively have too much weight. The approach for collecting well-qualified data with limited burden for annotating early neoplastic lesions are needed for the next generation AI datasets.

## RE-REVIEW REPORT OF REVISED MANUSCRIPT

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

**Author's Country/Territory:** United Kingdom

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**Reviewer chosen by:** Jia-Ping Yan

**Reviewer accepted review:** 2020-08-14 23:50

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**Review time:** 1 Day and 2 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 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 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

## SPECIFIC COMMENTS TO AUTHORS

The author's response for my request has almost been responded adequately. Please re-check if the presented algorithms in the Table 2 and 3 are the deep learning methods. The title of Table 2 and 3 may sufficient to show as development of machine learning instead of deep learning.