

## PEER-REVIEW REPORT

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

**Manuscript NO:** 63075

**Title:** Deep learning for diagnosis of precancerous lesions in upper gastrointestinal endoscopy: A review

**Reviewer's code:** 00030847

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Professor

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

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

**Manuscript submission date:** 2021-01-24

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

**Reviewer accepted review:** 2021-01-25 01:52

**Reviewer performed review:** 2021-01-26 11:19

**Review time:** 1 Day and 9 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 Grade E: Do not publish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 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



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

This review article describes AI diagnosis of upper gastrointestinal cancers, in particular the ability of deep learning to diagnose precancerous lesions, and describes selection bias in a retrospective study, making it a well-written article. It is a well-written paper.

About Figure 5. What does the orange colour mean? Why is the leftmost case, which appears to be a circumferential Barrett's esophagus, only partially orange? Please explain.

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## PEER-REVIEW REPORT

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

**Manuscript NO:** 63075

**Title:** Deep learning for diagnosis of precancerous lesions in upper gastrointestinal endoscopy: A review

**Reviewer's code:** 03028174

**Position:** Editor-in-Chief

**Academic degree:** MD

**Professional title:** Associate Professor, Staff Physician

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

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

**Manuscript submission date:** 2021-01-24

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

**Reviewer accepted review:** 2021-01-25 14:53

**Reviewer performed review:** 2021-02-14 06:28

**Review time:** 19 Days and 15 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 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 type="checkbox"/> Yes <input checked="" 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



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

The study is aimed to review the deep learning for diagnosis of precancerous lesions in upper gastrointestinal endoscopic procedure. The title is “Deep learning for

diagnosis of precancerous lesions in upper gastrointestinal endoscopy: A review”. 1.

This is a review article. 2. Please add more details of the limitations and the disadvantages of the deep learning. 3. What is the new knowledge from this article? 4.

Finally, please recommend the readers “How to apply this knowledge for routine clinical practice?”.