



### PEER-REVIEW REPORT

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

**Manuscript NO:** 54644

**Title:** Chronic atrophic gastritis detection with a convolutional neural network considering stomach regions

**Reviewer's code:** 03009411

**Position:** Editorial Board

**Academic degree:** MD

**Professional title:** Associate Professor, Chief Physician, Doctor

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

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

**Manuscript submission date:** 2020-02-17

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2020-02-17 05:40

**Reviewer performed review:** 2020-02-17 05:49

**Review time:** 1 Hour

<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 Grade E: Do not publish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>Re-review</b>	<input 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



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7041 Koll Center Parkway, Suite  
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**Telephone:** +1-925-399-1568  
**E-mail:** [bpgoffice@wjgnet.com](mailto:bpgoffice@wjgnet.com)  
**https://**[www.wjgnet.com](http://www.wjgnet.com)

## **SPECIFIC COMMENTS TO AUTHORS**

Helicobacter pylori associated gastritis is a common clinical disease, especially in Asia. The risk of gastric cancer is increased in patients with Helicobacter pylori associated gastritis, especially in patients with atrophic gastritis. Gastroscopy is the most direct way to find and diagnose Helicobacter pylori associated gastritis, but for patients who are not willing to accept gastroscopy or in countries and regions where gastroscopy screening has not been widely used, X-ray examination has advantages and has better clinical value to improve the accuracy of the examination. To evaluate the effectiveness of stomach regions that are automatically estimated by a deep learning-based model for gastritis detection, the authors used 815 GXIs (200 for training and 615 for evaluation) obtained from 815 subjects. By using GXIs with the stomach regions for training, the proposed method realizes accurate gastritis detection that automatically excludes the effect of regions outside the stomach. As a preliminary exploration, this study has better clinical value and application prospects, but more multi angle samples and clinical centers are needed to further explore.



### PEER-REVIEW REPORT

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**Title:** Chronic atrophic gastritis detection with a convolutional neural network considering stomach regions

**Reviewer's code:** 00503417

**Position:** Peer Reviewer

**Academic degree:** PhD

**Professional title:** Doctor, Professor

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

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

**Manuscript submission date:** 2020-02-17

**Reviewer chosen by:** Le Zhang

**Reviewer accepted review:** 2020-02-19 16:27

**Reviewer performed review:** 2020-02-19 16:57

**Review time:** 1 Hour

<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 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 indeed is a useful study, especially in regions such as Japan where early detection of pre-cancerous lesions is indicated. However, I suggest the following inputs: 1. Please state in detail how the X-ray studies were performed, i.e., contrast used, amount used, technique of fluoroscopy / exposure details 2. The term 'gastritis' suggests inflammation, an entity that obviously cannot be seen on X-ray. Can the authors find a better term? For example, are they looking for stages of atrophy, as the Kimura-Takemoto classification suggests? 3. Please mention the specific features on X-ray that you looked for 4. A statement that this is a complement to endoscopy should be made. How this fits in in clinical practice can be stated



## PEER-REVIEW REPORT

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

**Manuscript NO:** 54644

**Title:** Chronic atrophic gastritis detection with a convolutional neural network considering stomach regions

**Reviewer's code:** 02505493

**Position:** Editorial Board

**Academic degree:** DPhil

**Professional title:** Professor

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

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

**Manuscript submission date:** 2020-02-17

**Reviewer chosen by:** Le Zhang

**Reviewer accepted review:** 2020-02-19 16:26

**Reviewer performed review:** 2020-02-27 10:15

**Review time:** 7 Days and 17 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>Re-review</b>	<input 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

The manuscript can be accepted for publication

#### RE-REVIEW REPORT OF REVISED MANUSCRIPT

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**Title:** Chronic atrophic gastritis detection with a convolutional neural network considering stomach regions

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**Professional title:** Professor

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

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

**Manuscript submission date:** 2020-02-17

**Reviewer chosen by:** Jin-Zhou Tang (Quit in 2020)

**Reviewer accepted review:** 2020-04-15 05:58

**Reviewer performed review:** 2020-04-15 07:17

**Review time:** 1 Hour

<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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection



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<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 authors have followed the suggestions of the reviewers, so the manuscript can be accepted for publication.



## RE-REVIEW REPORT OF REVISED MANUSCRIPT

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

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

**Manuscript submission date:** 2020-02-17

**Reviewer chosen by:** Jin-Zhou Tang (Quit in 2020)

**Reviewer accepted review:** 2020-04-15 08:32

**Reviewer performed review:** 2020-04-15 08:51

**Review time:** 1 Hour

<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
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**Author's Country/Territory:** Japan

**Manuscript submission date:** 2020-02-17

**Reviewer chosen by:** Jin-Zhou Tang (Quit in 2020)

**Reviewer accepted review:** 2020-04-15 13:08

**Reviewer performed review:** 2020-04-16 03:32

**Review time:** 14 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
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