

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

Scientific quality	<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 Grade E: Do not publish
Language quality	<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
Conclusion	<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
Re-review	<input type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



**Baishideng
Publishing
Group**

7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA
Telephone: +1-925-399-1568
E-mail: bpgoffice@wjgnet.com
https://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

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: 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

Scientific quality	<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
Language quality	<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
Conclusion	<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
Re-review	<input type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



**Baishideng
Publishing
Group**

7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA
Telephone: +1-925-399-1568
E-mail: bpgoffice@wjgnet.com
<https://www.wjgnet.com>

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

Scientific quality	<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
Language quality	<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
Conclusion	<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
Re-review	<input type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	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

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: 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

Scientific quality	<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
Language quality	<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
Conclusion	<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



**Baishideng
Publishing
Group**

7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA
Telephone: +1-925-399-1568
E-mail: bpgoffice@wjgnet.com
https://www.wjgnet.com

Peer-reviewer statements	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 authors have followed the suggestions of the reviewers, so the manuscript can be accepted for publication.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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: 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: 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

Scientific quality	<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
Language quality	<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
Conclusion	<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
Peer-reviewer statements	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



**Baishideng
Publishing
Group**

7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA
Telephone: +1-925-399-1568
E-mail: bpgoffice@wjgnet.com
https://www.wjgnet.com

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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: 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

Scientific quality	<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
Language quality	<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
Conclusion	<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
Peer-reviewer statements	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



**Baishideng
Publishing
Group**

7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA
Telephone: +1-925-399-1568
E-mail: bpgoffice@wjgnet.com
https://www.wjgnet.com

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. After revision of the manuscript , readers can better understand the content of the article.