

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Clinical Oncology*

**Manuscript NO:** 65681

**Title:** From Helicobacter pylori infection to gastric cancer: Current evidence on the immune response

**Provenance and peer review:** Invited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 05113803

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Associate Professor

**Reviewer's Country/Territory:** South Korea

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

**Manuscript submission date:** 2021-03-14

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-03-15 12:57

**Reviewer performed review:** 2021-03-18 23:27

**Review time:** 3 Days and 10 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 Grade E: Do not publish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 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 type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 review article was well-written for immune response of H. pylori and gastric cancer. The sections of text body were structured and contents were described in detail. However, following two things are needed to be revised for a better manuscript. First, many cytokines were involved in H. pylori infection and immune response. To list and summarize the related cytokines using Tables may be helpful for the readers to understand this article. Second, 'Bormann' was misspelled. It should be corrected to 'Borrmann'. Also, roman letters in gastric cancer type classification should be corrected to 1, 2, 3, and 4.

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**Peer-review model:** Single blind

**Reviewer's code:** 05423566

**Position:** Peer Reviewer

**Academic degree:** MD, PhD

**Professional title:** Full Professor

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

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

**Manuscript submission date:** 2021-03-14

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-03-14 19:38

**Reviewer performed review:** 2021-03-21 18:36

**Review time:** 6 Days and 22 Hours

<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 a well written review article that has shown in great detail the role of H. pylori infection in the inflammatory process and oncogenesis through a detailed molecular cascade of cellular processes. The paper synthesizes a number of previous scientific findings. Minor remarks: Introduction: "Recent work by Elzouki et al. evaluated 114 patients with GC" - correct to gastric cancer (GC). Thus, after a chronic inflammatory process, the host may develop gastric cancer (GC)" - correct to GC. - Please specify in the Introduction that H. pylori has been classified as a carcinogen of the first group by WHO Discussion: - Please include a few questions / topics for the future.

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**Peer-review model:** Single blind

**Reviewer's code:** 03820695

**Position:** Peer Reviewer

**Academic degree:** MD, PhD

**Professional title:** Assistant Professor

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

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

**Manuscript submission date:** 2021-03-14

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-03-15 01:17

**Reviewer performed review:** 2021-03-22 06:25

**Review time:** 7 Days and 5 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
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No



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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**

This “Topic Highlight” article was well written and nicely summarized the latest findings about *Helicobacter pylori* infection in gastric cancer.

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**Peer-review model:** Single blind

**Reviewer's code:** 03009411

**Position:** Editorial Board

**Academic degree:** MD

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

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

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

**Manuscript submission date:** 2021-03-14

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-03-19 03:12

**Reviewer performed review:** 2021-03-26 03:54

**Review time:** 7 Days

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> 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

The occurrence and development of gastric cancer is the result of multiple factors. Chronic inflammation is a risk or prerequisite factor for the development of a number of human malignancies. *Helicobacter pylori* plays an important role in the occurrence and development of gastric cancer, especially for intestinal type gastric cancer. The pathogenesis of *Helicobacter pylori* is complex, and the mechanism of its pathogenic factors in the development of gastric cancer has not been fully understood. The authors highlight the main aspects related to gastric cancer, from infection, gastric micro environment to immune response. East Asia is a high incidence area of gastric cancer in the world. There are obvious differences in the occurrence and development of gastric cancer between East Asian and Western strains of *Helicobacter pylori*. It is suggested to add relevant contents in the article, such as CAG PAI, SHP2. Lipopolysaccharide (LPS) also plays an important role in the pathogenicity of *Helicobacter pylori*. It is suggested to add relevant contents.



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**Peer-review model:** Single blind

**Reviewer's code:** 03727739

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Attending Doctor, Doctor, Research Assistant, Teacher

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

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

**Manuscript submission date:** 2021-03-14

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-03-25 17:55

**Reviewer performed review:** 2021-03-28 14:54

**Review time:** 2 Days and 20 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 type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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<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 review details the various outcomes of H.pylori associated infectious disease in a logical order. It is well-written and -organized, helping readers to understand the pathogenicity of gastric epithelial cells colonized with Hp. The schematic diagram is the best part need to be applauded. There are two limitations that ought to be complete. Firstly, Hp associated gastric carcinogenesis is acknowledged as multi-step progress encompassing non-atrophic gastritis, atrophic gastritis, intestinal metaplasia, dysplasia, and ultimate gastric carcinoma, which is also called "inflammation-carcinoma chain". To best fit your title, mechanisms of Hp related precancerous lesion should be added. Secondly, the part of gastric cancer classification, in reviewers' aspect, should be simplified since Hp is not only factor of GC.

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**Peer-review model:** Single blind

**Reviewer's code:** 03765698

**Position:** Peer Reviewer

**Academic degree:** MD, PhD

**Professional title:** Assistant Professor, Doctor

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

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

**Manuscript submission date:** 2021-03-14

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-03-18 10:28

**Reviewer performed review:** 2021-04-03 17:48

**Review time:** 16 Days and 7 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 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 type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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 an interesting review focused on the relationship between gastric cancer and H. pylori infection. Nevertheless, in my opinion the authors should focus more on describing the relationship between gastric microenvironment, H. pylori infection and evasion mechanism and provide their own explanation for the occurrence of gastric cancer taking into account these facts. The general information that are well known in the literature are too detailed. Moreover, they should use a more appropriate medical language.