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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 65799

Title: Impact of Helicobacter pylori infection on gut microbiota

Reviewer's code: 05104676 Position: Peer Reviewer Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: Japan

Manuscript submission date: 2021-03-23

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-03-24 01:48

Reviewer performed review: 2021-03-28 10:41

Review time: 4 Days and 8 Hours

Scientific quality	[] Grade A: Excellent [Y] Grade B: Very good [] Grade C: Good [] Grade D: Fair [] Grade E: Do not publish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



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SPECIFIC COMMENTS TO AUTHORS

1 Title. Does the title reflect the main Reviewer Comments to Author: subject/hypothesis of the manuscript? Yes 2 Abstract. Does the abstract summarize and reflect the work described in the manuscript? Yes 3 Key words. Do the key words reflect the focus of the manuscript? Yes 4 Background. Does the manuscript adequately describe the background, present status and significance of the study? Yes 5 Methods. Does the manuscript describe methods (e.g., experiments, data analysis, surveys, and clinical trials, etc.) in adequate detail? Yes 6 Results. Are the research objectives achieved by the experiments used in this study? What are the contributions that the study has made for research progress in this field? Yes The research suggests that the relationship between H. pylori infection and gut microbiota, and points out the direction for the next exploration of the relationship between H. pylori infection and gut microbiota. 7 Discussion. Does the manuscript interpret the findings adequately and appropriately, highlighting the key points concisely, clearly and logically? Are the findings and their applicability/relevance to the literature stated in a clear and definite manner? Is the discussion accurate and does it discuss the paper's scientific significance and/or relevance to clinical practice sufficiently? Yes 8 Illustrations and tables. Are the figures, diagrams and tables sufficient, good quality and appropriately illustrative of the paper contents? Do figures require labeling with arrows, asterisks etc., better legends? 9 Biostatistics. Does the manuscript meet the requirements of biostatistics? Yes 10 Units. Does the manuscript meet the requirements of use of SI units? Yes 11 References. Does the manuscript cite appropriately the latest, important and authoritative references in the introduction and discussion sections? Does the author self-cite, omit, incorrectly cite and/or over-cite references? Literature citations are appropriate. 12 Quality of manuscript organization and presentation. Is the manuscript well, concisely and coherently organized and presented? Is the style, language and grammar accurate and



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appropriate? Partly 13 Research methods and reporting. Authors should have prepared their manuscripts according to manuscript type and the appropriate categories, as follows: (1) CARE Checklist (2013) - Case report; (2) CONSORT 2010 Statement -Clinical Trials study, Prospective study, Randomized Controlled trial, Randomized Clinical trial; (3) PRISMA 2009 Checklist - Evidence-Based Medicine, Systematic review, Meta-Analysis; (4) STROBE Statement - Case Control study, Observational study, Retrospective Cohort study; and (5) The ARRIVE Guidelines - Basic study. Did the author prepare the manuscript according to the appropriate research methods and reporting? Yes 14 Ethics statements. For all manuscripts involving human studies and/or animal experiments, author(s) must submit the related formal ethics documents that were reviewed and approved by their local ethical review committee. Did the manuscript meet the requirements of ethics? Yes The author provides a review on the impact of H. pylori infection and eradication on the composition and diversity of the gut microbiota. And points out the direction for the next exploration of the relationship between H. pylori infection and gut microbiota. Some comments and suggestions: 1. H. pylori infection is in the stomach, and antibiotics and PPIs also act on the stomach. Should the author investigate the changes in the composition and diversity of the gastric microbiota instead of the gut microbiota. 2. As we all know, in addition to age, gender, BMI and virulence, diet is also a non-negligible factor affecting the microbiota.. 3. In addition to CagA, VacA is also a factor affecting the virulence of H. pylori, and new insights suggest that VacA and CagA may counter-regulate each other to manipulate host cell responses. However, in the "The mechanisms of changes in gut microbiota induced by H. pylori infection" part, the author only discusses the CagA's effect on the gut microbiota is sufficient. 4. The name of the bacteria should be written in italics, please check the full text carefully.