

Reviewer #1:

Specific Comments to Authors: Review comments WJG-89510, reviewer. It is my great honour and pleasure to review such an interesting manuscript. The authors tried to prove that a new perspective for exploring the significance of urinary metabolites in evaluating the treatment and prognosis of *H. pylori*-positive chronic gastritis patients. This is an experimental study by analyzing urinary metabolic profiles. There are some limitations in this study as below;

1. The sample size is small.

Response: Thank you for your comments. Although the number of samples in this study is small, this study showed that the removal of *Helicobacter pylori* significantly changed the urinary metabolites in *H. pylori*-positive chronic gastritis patients. Besides, this study is the first attempt to apply metabolomics to explore the urinary metabolic profiles during *H. pylori* eradication in chronic gastritis patients. This study proved that it is feasible to use metabolomics to explore the treatment engagement of *H. pylori*-positive chronic gastritis patients, and the next study should expand the sample size.

2. There is no control. This is important. The study design, In order to prove “Urinary metabolic profiles during *Helicobacter pylori* eradication in chronic gastritis”, *Helicobacter pylori* positive/negative, chronic gastritis positive/negative and administration of eradication medicine positive/negative should be examined. Basically, this study will contribute a kind of frontier works. I respect authors’ much labor. Unfortunately, there is no control groups.

Response: Thank you for your comments. In our study, there was a group named “Health” including 20 samples for health people without chronic gastritis, which is a control group. Besides, the described design of sample groups is very perfect, but due to the uncontrollability of clinical research, it is difficult to collect enough samples. However, this design is very suitable for animal experiments to verify clinical results.

Science editor:

(1) Please provide the Clinical trial registration statement.

Response: Thank you for your comments. The Clinical trial registration statement has been provided.

(2) Please provide the CONSORT 2010 statement.

Response: Thank you for your comments. The CONSORT 2010 statement has been provided.

(3) Please provide the Informed consent statement.

Response: Thank you for your comments. According to your suggestion, the Informed consent statement has been added to manuscript.

(4) Please provide the Language certificate. The English-language grammatical presentation needs to be improved to a certain extent. There are many errors in grammar and format, throughout the entire manuscript. Before final acceptance, the authors must provide the English Language Certificate issued by a professional English language editing company. Please visit the following website for the professional English language editing companies we recommend: <https://www.wjgnet.com/bpg/gerinfo/240>.

Response: Thank you for your comments. The manuscript has been subjected to LetPub for language editing in March 28, 2023 after the completion of the manuscript. The “Certificate of English Language Editing” has been provided below.

Certificate of English Language Editing



Manuscript Title:
LC-MS-based metabolomics reveals urinary metabolic changes
during *Helicobacter pylori* eradication in chronic gastritis

Date of Revision:
March 28, 2023

Abstract: What is known and objective: *Helicobacter pylori* infection is a major risk factor for chronic gastritis, affecting approximately half of the global population. *H. pylori* eradication is a popular treatment method for *H. pylori*-positive chronic gastritis, but its mechanism remains unclear. Urinary metabolomics has been used to elucidate the mechanisms of gastric disease treatment. However, no clinical study has been conducted on urinary metabolomics of chronic gastritis.
Methods: We applied LC-MS-based metabolomics and network pharmacology to investigate the relationships between urinary metabolites and *H. pylori*-positive chronic gastritis via a clinical follow-up study.
Results and discussion: Our study revealed the different urinary metabolic...

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as Figure 1 title. A: ; B: ; C: .

Response: Thank you for your comments. The Figures in the form of PPT has been provided.

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Response: Thank you for your comments. There are no pictures or data cited from other literature in this manuscript.

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Response: Thank you for your comments. According to your suggestion, the description form of statistical significance has been modified.

(8) Please add the Core tip section. The number of words should be controlled between 50-100 words.

Response: Thank you for your comments. According to your suggestion, the Core tip has been added to manuscript follow the “Abstract” section.

(9) The “Article Highlights” section is missing. Please add the “Article Highlights”

section at the end of the main text (and directly before the References).

Response: Thank you for your comments. According to your suggestion, the “Article Highlights” has been added to manuscript follow the “Conclusion” section.

(10) Please provide the PubMed numbers and DOI citation numbers to the reference list and list all authors of the references. If there is no PMID or DOI, please provide the website address.

Response: Thank you for your comments. According to your suggestion, the PMID and DOI numbers has been added.