

Dear editors and reviewers:

June 2, 2021

Thank you for your letter and the reviewers' comments on our manuscript entitled " Current situation and prospect of artificial intelligence application in endoscopic diagnosis of Helicobacter pylori infection" (ID: 67773). Those comments are very helpful for revising and improving our paper, as well as the important guiding significance to other research. We have studied the comments carefully and made corrections which we hope meet with approval. The main corrections are in the revised manuscript and the responds to the reviewers' comments are as follows:

Reviewer #1:

1.The introduction pages are somewhat redundant. The explanation of Kyoto classification (From line 10 – line 4 (next page)) should be summarized intermittently.

Response: *We've cut out the superfluous content to make this part more concise.*

2. And then, several previous reports have described... undifferentiated type. This paper reviewed about the diagnosis of HP infection. Hence, personally, this part seems unnecessary.

Response: *After careful consideration, we agree with the reviewer's opinion and delete this part.*

3. Please add the table about the characteristics of current reported AI-assisted HP diagnosis model.

Response: *According to the requirements of editors and reviewers, we summarized the detailed information of current studies about AI-assisted endoscopic diagnosis of *H. pylori* infection and elaborate a table. (See the File: 67773-table-file-revision.docx for details)*

4. All of the above studies used WLI to build the CAD system... Ref 49-51 didn't show the advantage of BLI or NBI as far as the diagnosis of HP infection.

Response: *We removed references to this section and requoted appropriate references.*

5. In the reference part, ref 51 has unnecessary part between PMCID and DOI.

Response: *This reference has been removed.*

Kind regards,

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