



### PEER-REVIEW REPORT

**Name of journal:** World Journal of Gastroenterology

**Manuscript NO:** 60012

**Title:** Changes in Gut Microbiota Composition and Diversity Associated with Post-cholecystectomy Diarrhea

**Reviewer's code:** 00069423

**Position:** Editorial Board

**Academic degree:** FAASLD, MD

**Professional title:** Professor

**Reviewer's Country/Territory:** United States

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

**Manuscript submission date:** 2020-10-12

**Reviewer chosen by:** Jia-Ping Yan

**Reviewer accepted review:** 2020-10-26 09:45

**Reviewer performed review:** 2020-10-31 13:45

**Review time:** 5 Days and 3 Hours

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 Grade A: Excellent [ ] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish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



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## **SPECIFIC COMMENTS TO AUTHORS**

October 31, 2020 Review for World J Gastroenterology, Manuscript "Changes in Gut microbiota Composition and Diversity Associated with Post-cholecystectomy Diarrhea"

Post-cholecystectomy diarrhea (PCD) has been one of the complications for patients who underwent the surgery. PCD has long been suspected to be related to the gut microbiota. With an extensive and sophisticated investigation, the authors noted the reduction of diversity and richness of gut microbe after cholecystectomy and the changes of the ratio of different groups of microbiota. Utilizing 16S rRNA gene sequencing, the authors found lower microbial richness and diversity in PCD patients compared with PCND. Furthermore, Bifidobacterium was decreased in PCD group compared to PCND group. Based on their findings, the possible treatment for PCD group with Bifidobacterium probiotics may be able to prevent PCD patients in the future.

Authors are commended for their extensive and well carried out study and offering possible treatment for patients who suffer from PCD.