

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

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Reviewer chosen by: Jia-Ping Yan

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Scientific quality	[<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] Grade E: Do not publish
Language quality	[<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
Conclusion	[<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
Re-review	[<input type="radio"/>] Yes [<input checked="" type="radio"/>] No
Peer-reviewer statements	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

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 microbia. 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 microbia. 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.