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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 58973

Title: Altered metabolism of bile acids correlates with clinical parameters and the gut microbiota in patients with diarrhea-predominant irritable bowel syndrome

Reviewer's code: 02531171
Position: Editorial Board
Academic degree: BSc, PhD
Professional title: Lecturer, Research Fellow
Reviewer's Country/Territory: Ireland
Author's Country/Territory: China

Manuscript submission date: 2020-08-17
Reviewer chosen by: AI Technique
Reviewer accepted review: 2020-08-21 09:56
Reviewer performed review: 2020-08-21 13:08
Review time: 3 Hours

Scientific quality	[Y] Grade A: Excellent [ ] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish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

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SPECIFIC COMMENTS TO AUTHORS

58973: Altered metabolism of bile acids correlates with clinical parameters and the gut microbiota in patients with diarrhea-predominant irritable bowel syndrome by Wei W et al,. This is a well-designed and well-executed study examining bile acid composition in IBS-D patients in addition to assessing potential correlations with changes in microbial profiles. It is well laid-out, clearly written with clear and informative figures and tables. I only have a couple of minor comments relating to this manuscript. Specific comments: Could the authors postulate as to why more bile acids are spilling over into the colons in IBS-D patients (rather than being recycled in the EHC?) Can the authors elaborate on the impact of BAs (and specific subtypes of bile acids) on microbes and how likely it is that changes in BA spillover is contributing to changes in microbial profiles? Is BA synthesis modified in IBS-D patients?