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PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 75232

Title: Gut microbiota in various childhood disorders: Implication and indications

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03199608
Position: Editorial Board
Academic degree: MD, PhD
Professional title: Chief Physician, Director, Professor
Reviewer's Country/Territory: China
Author's Country/Territory: Bahrain

Manuscript submission date: 2022-01-19

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-01-19 14:26

Reviewer performed review: 2022-01-28 08:43

Review time: 8 Days and 18 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish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	[Y] Yes [ ] No
Peer-reviewer	Peer-Review: [Y] Anonymous [ ] Onymous

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statements	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

Very nice review on gut microbiota, the current profile of both basic and clinical science. It systematically discussed the application in childhood diseases. If it could describe something of epilepsy, it would be better.

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Provenance and peer review: Invited Manuscript; Externally peer reviewed

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Reviewer's code: 05483368
Position: Peer Reviewer
Academic degree: MD
Professional title: Doctor
Reviewer's Country/Territory: China
Author's Country/Territory: Bahrain

Manuscript submission date: 2022-01-19

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-01-31 00:23

Reviewer performed review: 2022-02-04 13:59

Review time: 4 Days and 13 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish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) [ ] Accept (General priority) [ ] Minor revision [Y] Major revision [ ] Rejection
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statements	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

This work proposes an extensive review on the role of gut microbiota in various childhood disorders. It is an important and novel topic. This review provides a large amount of detailed information for the researchers in the related areas. However, there are also several problems need major revision: 1) The manuscript has no page or line number, which makes it difficult to point out the details. 2) In page 5, the "FUNCTION OF GUT MICROBIOTA" part is not well organized. It seems only the role of microbiota-derived SCFAs was described. Other important mechanisms should be added. For instance, bile acid and neurotransmitters. 3) In page 11, authors mentioned that microbiota plays an essential role during brain development through its effects on serotonin synthesis. Since both the brain and microbiota system can synthesis serotonin, authors should convince readers the specific function of microbiota-derived serotonin. Related reference should be provided. 4) In the "GUT MICROBIOTA IN COMMON PEDIATRIC DISORDERS" part, authors summarized the altered gut microbiota composition in various childhood disorders. However, the deeper mechanisms were not descripted. This review will be more helpful for the researchers in related field if some specific metabolic and molecular mechanism were added. 5) In Figure 1, the different gut-microbiota-axes were shown. However, it is not clear enough. Authors should show more details of the mechanism underlying the interaction of gut microbiota and host--may be need more figures--so that the results of the study are clear to the readers. 6) Please note the format of the tables. For instance, the fonts need to be unified.