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PEER-REVIEW REPORT

Name of journal: *World Journal of Gastrointestinal Surgery*

Manuscript NO: 83463

Title: Differences in metabolic improvement after metabolic surgery are linked to the gut microbiota in non-obese diabetic rats

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05445949
Position: Editorial Board
Academic degree: MD, PhD
Professional title: Assistant Professor, Chief Physician, Research Associate
Reviewer's Country/Territory: Serbia
Author's Country/Territory: China

Manuscript submission date: 2023-01-30

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-02-13 15:13

Reviewer performed review: 2023-02-13 16:05

Review time: 1 Hour

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Novelty of this manuscript	[Y] Grade A: Excellent [ ] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No novelty
Creativity or innovation of this manuscript	[Y] Grade A: Excellent [ ] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No creativity or innovation

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Scientific significance of the conclusion in this manuscript	[Y] Grade A: Excellent [ ] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No scientific significance
Language quality	[ ] Grade A: Priority publishing [Y] 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 [ ] Major revision [Y] Rejection
Re-review	[Y] Yes [ ] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous
	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

Luo et al. investigated the changes in observed metabolic and biochemical parameters as well as the changes in gut microbiota after SG, DSIB, and sham surgery. The paper looks very good, the study protocol is well-planned, but some major obstacle are arising: 1. English polishing is necessary (minor) 2. The procedure of STZ administration is omitting in Methodology section (minor) 3. As STZ-SD rats are the animal models of T1DM, what is the purpose of OGTT and ITT performance at baseline and 6wks after surgery? What can you get with OGTT, what is the idea? To diagnose already presented diabetes, to assess the insulin response to glucose challenge in T1DM rat? The same comment if for ITT. The better solution is to perform 5-point daily glycemic profile, or to calculate average glycemia, and to measure fructosamine and basal C peptide levels at baseline and 6 wks after the surgery (major).

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Reviewer's code: 03831562
Position: Peer Reviewer
Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: India

Author's Country/Territory: China

Manuscript submission date: 2023-01-30

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-03-07 09:44

Reviewer performed review: 2023-03-20 05:17

Review time: 12 Days and 19 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Novelty of this manuscript	[ ] Grade A: Excellent [ ] Grade B: Good [Y] Grade C: Fair [ ] Grade D: No novelty
Creativity or innovation of this manuscript	[ ] Grade A: Excellent [ ] Grade B: Good [Y] Grade C: Fair [ ] Grade D: No creativity or innovation

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Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No
Peer-reviewer statements	Peer-Review: [ ] Anonymous [Y] Onymous
	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

1. English language needs to be spruced up in order to enhance the quality of the presentation. 2. Firmicutes/Bacteroidetes (F/B) ratio is an important entity that would provide an insight into the nature and magnitude of the metabolic improvement. 3.What special care the authors have taken in order to document physical activity and heterogeneity of microbiota