

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 86896

Title: Enhanced glucose homeostasis via Clostridium symbiosum-mediated glucagon-like peptide 1 inhibition of hepatic gluconeogenesis in mid-intestinal bypass surgery

Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 07579397

Position: Peer Reviewer

Academic degree: N/A

Professional title: N/A

Reviewer's Country/Territory: Mexico

Author's Country/Territory: China

Manuscript submission date: 2023-07-20

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-08-21 22:41

Reviewer performed review: 2023-08-31 19:03

Review time: 9 Days and 20 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty

Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation
Scientific significance of the conclusion in this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

Methods Why did they use 1 g/kg of glucose in the OGTT? The most used dose of glucose is 2 g/kg. A bibliographical reference is needed. They need to specify the number of animals per group and how did they calculate it? First line of the section 3 “Biochemical tests and ELISA” It’s not clear. Did you collect blood samples in a glucometer? Or did you use glucometer to measure blood glucose levels? What kind of insulin were used in the experiment? Isophane? rapid insulin? Bibliographical reference is needed. Metabolomics section, change “faeces” for “feces” For Analysis of ITT they have to calculate KITT for 2-W and 6-W. How did they measure glycogen content? Injection only of STZ generates a hyperglycemic animals, but this hyperglycemia is more associated to type 1 than type 2 diabetes, in further experiments STZ-NA model is better to test type 2 diabetes. **Discussion** Gluconeogenesis inhibition explains the reduction of FBG. What is the hypothesis in the reduction of



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OGTT?

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Peer-review model: Single blind

Reviewer's code: 02441085

Position: Editorial Board

Academic degree: PhD

Professional title: Associate Professor

Reviewer's Country/Territory: Thailand

Author's Country/Territory: China

Manuscript submission date: 2023-07-20

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-09-01 14:51

Reviewer performed review: 2023-09-04 12:03

Review time: 2 Days and 21 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty

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Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

The author reported the postoperative intestinal bypass of the midsection small intestine in streptozotocin-induced diabetic rats improves glucose metabolism by increasing GLP-1 levels and inhibiting hepatic gluconeogenesis through the increased abundance of intestinal *Clostridium_symbiosum*.