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PEER-REVIEW REPORT

Name of journal: World Journal of Diabetes

Manuscript NO: 61032

Title: Effect of Oligofructose on Resistance to Postoperative High-Fat Diet-induced Damage of Metabolism in Diabetic Rats after Sleeve Gastrectomy

Reviewer's code: 02936371
Position: Peer Reviewer
Academic degree: BHMS, FRCPC, MD, PhD
Professional title: Full Professor, Professor, Research Scientist
Reviewer's Country/Territory: South Korea
Author's Country/Territory: China

Manuscript submission date: 2020-12-11
Reviewer chosen by: AI Technique
Reviewer accepted review: 2020-12-11 09:44
Reviewer performed review: 2020-12-29 01:06
Review time: 17 Days and 15 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
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) [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

Bariatric surgery has been considered as the most effective treatment for type 2 diabetes mellitus. How to reduce or delay the recurrence of diabetes after surgery is a severe problem that the clinicians have to face. Prebiotics are non-digestible oligosaccharides, such as oligofructose, galactooligosaccharides, lactulose and inulin. Prebiotics can promote the loss of body weights and improve the metabolism of glucose and lipid in rodents and human. The mechanisms for these benefits may be due to the reduction in energy intake, regulation of gut microbiota, improved low-grade inflammation and increased gut hormones, which stimulates us to explore whether prebiotics can reduce or delay the recurrence of diabetes after surgery. In the present study, we conducted SG on nicotinamide–streptozotocin–HFD induced diabetic model rats with metabolic characteristics of human diabetes, and stimulated the recurrence of diabetes with postoperative HFD feeding. This study is very well designed, the methods are clearly described. Results are very interesting. In my opinion, this manuscript can be accepted after a minor editing.

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PEER-REVIEW REPORT

Name of journal: World Journal of Diabetes

Manuscript NO: 61032

Title: Effect of Oligofructose on Resistance to Postoperative High-Fat Diet-induced Damage of Metabolism in Diabetic Rats after Sleeve Gastrectomy

Reviewer's code: 02936355
Position: Peer Reviewer
Academic degree: FEBS, MD, PhD
Professional title: Associate Professor, Research Scientist
Reviewer's Country/Territory: Japan
Author's Country/Territory: China

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Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
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) [Y] Minor revision [ ] Major revision [ ] Rejection
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SPECIFIC COMMENTS TO AUTHORS

This is an interesting study about the oligofructose on resistance to postoperative high-fat diet-induced damage of metabolism in diabetic rats after sleeve gastrectomy. In this study, the authors studied the function and mechanism of oligofructose on diabetic remission in diabetic rats after sleeve gastrectomy. The animal models are good, and the research methods are reasonable. Results are good. Minor comments: 1. The manuscript requires a minor langauge editing; 2. Some abbreviations in the main text should be spell out, and I suggest authors to check the manuscript throughout. 3. The limit of the study is well discussed. Are there any plan to do further experimental about this topic? If so, please indicate it in the discussion. 4. References are updated, and well discussed. 5. Information in figures are good. The figures are too small, please provide the original figure documents.