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## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Clinical Cases*

**Manuscript NO:** 87787

**Title:** Gut-targeted therapies for Type 2 diabetes mellitus: A review

**Provenance and peer review:** Invited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 02461627

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

**Reviewer's Country/Territory:** United Arab Emirates

**Author's Country/Territory:** China

**Manuscript submission date:** 2023-08-27

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2023-08-27 08:06

**Reviewer performed review:** 2023-08-27 16:18

**Review time:** 8 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 Grade E: Do not publish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

<b>Scientific significance of the conclusion in this manuscript</b>	<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
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	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 manuscript entitled “Gut-targeted therapies for T2DM: A review” authored by Xu and colleagues reviewed Type 2 diabetes mellitus (T2DM) as a chronic metabolic disorder that is characterized by hyperglycemia and insulin resistance. Authors referred to the current treatments for T2DM include lifestyle modifications, oral antidiabetic agents, and insulin therapy and acknowledged that therapies may carry side effects and fail to achieve optimal glycemic control in some patients. They then discussed gut-targeted therapies, such as probiotics and fecal microbiota transplantation (FMT) that have shown potential for improving glycemic control and insulin sensitivity in T2DM patients. They also showed that NIH Stimulating Peripheral Activity to Relieve Conditions (SPARC) program research initiative was aimed at developing new therapies for a variety of health conditions, including T2DM. Briefly, SPARC program focuses on using electrical stimulation to activate peripheral nerves and organs, in order to regulate glucose levels in the body. Authors then concluded that further research is required to determine the optimal dose, duration, and safety of new therapies. It is essential to shed more light on the molecular mechanisms involved in developing diabetes. The following

studies should be integrated to serve such a purpose:  
<http://dx.doi.org/10.4236/jdm.2011.13006>, PMID: 29959408, PMID: 17151320. The following are important to be fully addressed: What time range of publication did this review article cover, what keywords did the search for literature include, what were the inclusion criteria, how many studies did the search find and how many were primary research vs review articles, of those, how many were selected for evaluation in this study, and finally what criteria were used for selecting the articles that were reviewed (was it the subject of the study, its novelty or both). Other comments • Careful proofreading is required. • Abbreviation list should be added. • A conclusion figure should be added to summarize the take-home message of this work.

## RE-REVIEW REPORT OF REVISED MANUSCRIPT

**Name of journal:** *World Journal of Clinical Cases*

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**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

**Reviewer's Country/Territory:** United Arab Emirates

**Author's Country/Territory:** China

**Manuscript submission date:** 2023-08-27

**Reviewer chosen by:** Ji-Hong Liu

**Reviewer accepted review:** 2023-11-27 05:36

**Reviewer performed review:** 2023-11-27 05:41

**Review time:** 1 Hour

<b>Scientific quality</b>	<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
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Peer-reviewer statements</b>	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**

none