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PEER-REVIEW REPORT

Name of journal: *World Journal of Diabetes*

Manuscript NO: 71809

Title: Free fatty acids, glucose, and insulin in type 2 diabetes mellitus

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 02446101
Position: Editorial Board
Academic degree: MD, PhD
Professional title: Professor, Surgeon
Reviewer's Country/Territory: China
Author's Country/Territory: Netherlands

Manuscript submission date: 2021-09-23
Reviewer chosen by: AI Technique
Reviewer accepted review: 2021-10-07 11:06
Reviewer performed review: 2021-10-07 11:33
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Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
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
Re-review	[ ] Yes [Y] No
Peer-reviewer	Peer-Review: [Y] Anonymous [ ] Onymous

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

SPECIFIC COMMENTS TO AUTHORS

This manuscript was designed to discuss the rationality of the phrase ‘insulin resistance’ and hoped to replaced it with ‘reduction in glucose effectiveness and insulin sensitivity’. It's an interesting manuscript and provides some interesting idea. However, there're still two issues which should be addressed. 1. Academic terms are mainly used in academic communication and must conform to the principles of convenience, simplicity and wide acceptance. In fact, ‘insulin resistance 'has been widely recognized. Replacing it with other words is not easy to be accepted and may cause misunderstanding. Therefore, I personally do not agree with the author's opinion. Nevertheless, I still think it is a meaningful thing to put forward this proposal and trigger academic discussion. 2. The last paragraph is too brief, so it is suggested to add more content and discuss it more systematically to facilitate readers' understanding. So, revision should be recommended.

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Reviewer's code: 05278434
Position: Peer Reviewer
Academic degree: PhD

Professional title: Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Netherlands

Manuscript submission date: 2021-09-23

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-10-08 01:31

Reviewer performed review: 2021-10-16 22:03

Review time: 8 Days and 20 Hours

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
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SPECIFIC COMMENTS TO AUTHORS

Insulin resistance is a relatively broad concept, but the basic meaning is that the insulin level is in the normal range, but its blood sugar lowering effect is reduced. The effectiveness of glucose mentioned by the author is essentially a factor for βcell function, but the original article "Association of β-cell function and insulin resistance with pediatric type 2 diabetes among Chinese children", only uses the HOMAs model to evaluate B cell function and insulin resistance, and does not involve the study of its mechanism. It is correct to add a review of insulin resistance in the original text, but I don't think it is accurate to replace "insulin resistance" completely with "reduction in glucose effectiveness and insulin sensitivity".