

PEER-REVIEW REPORT

Name of journal: *World Journal of Diabetes*

Manuscript NO: 76316

Title: Hyperglycemia and reduced adiposity of streptozotocin-induced diabetic mice are not alleviated by oral benzylamine supplementation

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05449464

Position: Editorial Board

Academic degree: DPhil, FCCP

Professional title: Adjunct Professor

Reviewer's Country/Territory: Taiwan

Author's Country/Territory: France

Manuscript submission date: 2022-03-11

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-03-18 07:36

Reviewer performed review: 2022-03-18 08:49

Review time: 1 Hour

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 Grade E: Do not publish
Language quality	<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
Conclusion	<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
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Peer-reviewer statements	Peer-Review: [<input checked="" type="radio"/>] Anonymous [<input type="radio"/>] Onymous Conflicts-of-Interest: [<input type="radio"/>] Yes [<input checked="" type="radio"/>] No
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SPECIFIC COMMENTS TO AUTHORS

This submission investigated the effects of oral benzylamine on lipotrophic changes in type 1 diabetic mice. I like to give the following comments. 1. A supplementation with 0.5% benzylamine (5 g/L) in the drinking water has been found to prevent the onset of diabetic complications in genetic mice by authors. Is it same for the normal mice? 2. The in vitro insulin-like actions of benzylamine have been mentioned in previous reports shown in introduction. Thus, authors speculated that benzylamine shall be effective in type-1 diabetes. However, results in current study were not the same. Why? 3. Success of the diabetic model was not identified in a good way. 4. Insulin sensitivity was ignored in current study. 5. Bias of benzylamine in the drinking water was not conducted in detail. 6. Oral benzylamine may improve glucose handling in high-fat diet fed mice and it directed authors focusing the lipotrophy of STZ diabetic mice. However, linkage of it with the recovery of hyperphagic and polydipsic behavior in diabetic mice was not discussed. 7. The dietary amine was effective to reduce hyperglycemia in alloxan-injected rat as shown in Reference 41. Why? Additionally, adipose atrophy induced by alloxan or not that shall be discussed in detail. 8. Another evidence that methylamine inhibited the insulin degradation by adipocytes is a good target for current report. 9. WAT was not enough in STZ-Mice that needs evidence while it has been used in the conclusion.

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Peer-review model: Single blind

Reviewer's code: 05249683

Position: Editorial Board

Academic degree: BSc, MSc, PhD

Professional title: Professor

Reviewer's Country/Territory: Egypt

Author's Country/Territory: France

Manuscript submission date: 2022-03-11

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-04-13 08:59

Reviewer performed review: 2022-04-13 13:12

Review time: 4 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
Language quality	<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
Conclusion	<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
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No



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Peer-reviewer statements	Peer-Review: [<input checked="" type="radio"/>] Anonymous [<input type="radio"/>] Onymous Conflicts-of-Interest: [<input type="radio"/>] Yes [<input checked="" type="radio"/>] No
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SPECIFIC COMMENTS TO AUTHORS

The authors obtained favorable results for the effect of benzylamine. The authors must confirm that their diabetic model is type 1 by measuring blood insulin levels in order to improve the manuscript. In addition, the authors must confirm the effect of benzylamine in their animals by measuring the activity of monoamine oxidase. Please revise the language throughout the manuscript. Cuproenzyme is one of the strange words in the manuscript. Cu proenzyme should be used.

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Title: Hyperglycemia and reduced adiposity of streptozotocin-induced diabetic mice are not alleviated by oral benzylamine supplementation

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05872883

Position: Peer Reviewer

Academic degree: PhD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: France

Manuscript submission date: 2022-03-11

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-04-11 12:48

Reviewer performed review: 2022-04-19 07:18

Review time: 7 Days and 18 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
Language quality	<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
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input checked="" type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Peer-reviewer statements	Peer-Review: [<input checked="" type="radio"/>] Anonymous [<input type="radio"/>] Onymous Conflicts-of-Interest: [<input type="radio"/>] Yes [<input checked="" type="radio"/>] No
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SPECIFIC COMMENTS TO AUTHORS

The manuscript entitled “Hyperglycemia and reduced adiposity of streptozotocin-induced diabetic mice are not alleviated by oral benzylamine supplementation” describes the effect of oral benzylamine on type 1 diabetes. However, it is difficult with the results presented to conclude that oral benzylamine is invalid in type 1 diabetes. I have some concerns and issues for the authors to address that may enhance the clarity of the manuscript and strengthen the data. 1. the study should experiment with different dose of benzylamine; 2. author wrote in the paper that an insufficient amount of adipocytes isolated from the atrophied WAT of STZ mice hampered the verification of glucose transport responsiveness to insulin and benzylamine in the type 1 diabetic state. However, evaluate the effect of benzylamine in the adipocytes are necessary, lack of this result cannt support the auther's conclusion. 3.author need more works to prove this opinion. Study is not deep enough, molecular mechanism of benzylamine in STZ diabetic mice is need explore.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Professional title: Adjunct Professor

Reviewer's Country/Territory: Taiwan

Author's Country/Territory: France

Manuscript submission date: 2022-03-11

Reviewer chosen by: Kai-Le Chang

Reviewer accepted review: 2022-05-26 09:34

Reviewer performed review: 2022-05-26 11:41

Review time: 2 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
Language quality	<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
Conclusion	<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
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements

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

SPECIFIC COMMENTS TO AUTHORS

It has been revised following the comments.

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Professional title: Professor

Reviewer's Country/Territory: Egypt

Author's Country/Territory: France

Manuscript submission date: 2022-03-11

Reviewer chosen by: Kai-Le Chang

Reviewer accepted review: 2022-05-26 08:44

Reviewer performed review: 2022-05-27 09:12

Review time: 1 Day

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
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Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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

SPECIFIC COMMENTS TO AUTHORS

The authors have a good response to the previous comments.