

PEER-REVIEW REPORT

Name of journal: World Journal of Diabetes

Manuscript NO: 80246

Title: The role of selenium in type 2 diabetes, insulin resistance and insulin secretion

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05315572

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Chief Doctor, Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Spain

Manuscript submission date: 2022-09-20

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-09-20 15:40

Reviewer performed review: 2022-09-21 05:27

Review time: 13 Hours

Scientific quality	[] Grade A: Excellent [] Grade B: Very good [Y] Grade C: Good [] Grade D: Fair [] Grade E: Do not publish
Judgment by peer reviewers	Does this manuscript meet the code of ethics standards? [J11] Yes [J10] No Does this manuscript have important novelty? [J21] Yes [J20] No Does this manuscript have important creativity or innovation? [J31] Yes [J30] No Does this manuscript use reliable research methods?



	[J41] Yes [J40] No
	Are the manuscript-accompanying data and figures authentic?
	[J51] Yes [J50] No
	Does this manuscript make scientifically significant conclusions?
	[J61] Yes [J60] No
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	[Y]Yes []No
Peer-reviewer	Peer-Review: [Y] Anonymous [] Onymous
statements	Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

This manuscript reviewed the relationship between selenium and The relationship among the diabetes, islets β cell function and insulin resistance, the advices were as follows: 1.Insulin resistance and β Cell function is closely related to inflammation and immunity, and selenium is closely related to the immune system, so the authors should review the literature and comment in this regard 2.Clinical research on the relationship between selenium and treatment of diabetes should be included



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Reviewer's code: 02533234

Position: Peer Reviewer

Academic degree: PhD, 博士

Professional title: Professor, 教授

Reviewer's Country/Territory: China

Author's Country/Territory: Spain

Manuscript submission date: 2022-09-20

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-10-06 00:32

Reviewer performed review: 2022-10-06 08:26

Review time: 7 Hours

Scientific quality	[] Grade A: Excellent [Y] Grade B: Very good [] Grade C: Good [] Grade D: Fair [] Grade E: Do not publish
Judgment by peer reviewers	Does this manuscript meet the code of ethics standards? [J11] Yes [J10] No Does this manuscript have important novelty? [J21] Yes [J20] No Does this manuscript have important creativity or innovation? [J31] Yes [J30] No Does this manuscript use reliable research methods?



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SPECIFIC COMMENTS TO AUTHORS

This manuscript reviewed the the role of selenium in type 2 diabetes and the complex interplay between selenoproteins and insulin pathways. The conclusion is a U-shaped dose-dependent effect between selenium exposure and type 2 diabetes, and selenium supplements should be taken with caution. 1. Manuscript should be further focused on the selenium, selenoproteins, and type 2 diabetes, insulin resistance and β -cell secretory function, especially the evidences of selenium exposure and type 2 diabetes by different designs, overall selenium exposure in the world. 2. 1.1 and 1.2 could be presented briefly.