

PEER-REVIEW REPORT

Name of journal: *World Journal of Diabetes*

Manuscript NO: 86072

Title: Effects of vitamin D supplementation on glucose and lipid metabolism in patients with type 2 diabetes mellitus and risk factors for insulin resistance

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06519550

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Assistant Professor, Research Associate

Reviewer's Country/Territory: Germany

Author's Country/Territory: China

Manuscript submission date: 2023-06-20

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-06-26 00:23

Reviewer performed review: 2023-07-06 02:58

Review time: 10 Days and 2 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input 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 Grade E: Do not publish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

Scientific significance of the conclusion in 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 scientific significance
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
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Peer-reviewer statements	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 study deals with an interesting theme, investigating the risk factors of insulin resistance and the effects of vitamin D supplementation on glucose and lipid metabolism in patients with T2DM. The patients included in the study were divided into the resistance group and non-resistance group based on the diagnostic criteria of IR. Subsequently, patients in the resistance group were subdivided to a conventional group or a joint group according to the treatment regimens. Logistic regression was used to analyze the risk factors of IR in T2DM patients, and the changes of glucose and lipid metabolism indicators after treatment in T2DM patients with vitamin D deficiency were evaluated. The discussion section gave emphasis to the new contribution of the study in its field. Patients with IR exhibit significant abnormalities in glucose and lipid metabolism parameters compared to the non-insulin resistant group. The authors stated that 25(OH)D3 is an independent risk factor influencing IR. The manuscript presents sufficient quality to be published in this journal.

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Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06519663

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: India

Author's Country/Territory: China

Manuscript submission date: 2023-06-20

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-06-25 00:42

Reviewer performed review: 2023-07-06 07:55

Review time: 11 Days and 7 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input 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
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Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	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 written by Lijie Sun et al. analyze the risk factor for insulin resistance (IR) and investigate the effects of vitamin D supplementation on glucose and lipid metabolism in patients with T2DM and IR by a retrospective analysis of 162 patients with T2DM. I found it's well conducted with good methodology and intelligible English. The topic is actual and well described. The design of the study is very good. The results are excellent. Their conclusions may provide an objective reference basis to plan a clinical intervention. The whole manuscript is well drafted. Also, the manuscript also reviewed previous related literature. However, the reviewer suggests that the flow chart of FIGURE 1 should be simplified, which is too cumbersome at present.