

PEER-REVIEW REPORT

Name of journal: World Journal of Diabetes

Manuscript NO: 63014

Title: Salivary resistin level and its association with insulin resistance in obese individuals

Reviewer's code: 03536702

Position: Editorial Board

Academic degree: PhD

Professional title: Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Malaysia

Manuscript submission date: 2021-01-22

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-04-12 01:01

Reviewer performed review: 2021-04-22 03:15

Review time: 10 Days and 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 Grade E: Do not publish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 type="checkbox"/> Accept (General priority) <input checked="" 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

This paper mainly gives a review on the pathogenesis of insulin resistance in obesity, insulin resistance mechanism, the role of resistin in insulin resistance, and the potential of salivary resistin as a biomarker of insulin resistance. I have the following comments:

- 1.The title does not cover the content of this review. I suggest the authors revise it.
- 2.Under the subtitle 'Pathogenesis of insulin resistance in obesity', the authors should include other causes of insulin resistance in addition to chronic inflammation. Chronic inflammation is not the only cause of insulin resistance in obesity. For example, the lipotoxicity can increase diacylglycerol and induce oxidative stress, and endoplasmic reticulum stress in muscle and liver, further causing local and systemic insulin resistance.
- 3.Under the subtitle 'Pathogenesis of insulin resistance in obesity', the second paragraph does not fit in the content as indicated by the subtitle.
- 4.Under the subtitle 'insulin resistance mechanism', the subtitle is not clear to readers. What did the authors want to convey? The mechanism underlying the occurrence of insulin resistance, or the mechanisms underlying the effects of insulin resistance. My understanding is the latter has been touched by the subtitle 'Pathogenesis of insulin resistance in obesity'. Please make this subtitle more clear.
- 5.Under the subtitle 'insulin resistance mechanism', the second paragraph talks about the mechanism by which insulin function, but not the mechanism by which insulin resistance exerts its effects. If the authors want to express the mechanism underlying the effects of insulin resistance, there is a lack of description on the link of insulin resistance to insulin before talking about the effects of insulin under this subtitle. There are some format problems.