

Name of Journal: World Journal of Diabetes

ESPS Manuscript NO: 8101

Title: Adipokines as a novel link between obesity and atherosclerosis

Author: Hye Jin Yoo, Kyung Mook Choi

Reviewer's comments

Reviewer #1:

In this review, authors summarize recent laboratory and clinical studies on the influence of various adipokines on the development of atherosclerosis. It is a relatively well written manuscript in an exhaustively reviewed theme.

Minor comments

ADIPONECTIN

1. "Recent *in vivo* experiments have shown that adiponectin improves glucose metabolism by directly stimulating pancreatic insulin secretion in addition to improving insulin sensitivity [7]. Adiponectin also affects the central nervous system and regulates dietary intake and energy consumption [8]."

These sentences have no any direct relation with the subject of the review and should better be omitted

2. "Therefore, adiponectin has anti-inflammatory, antiatherogenic, and antidiabetic properties"

Previous sentences do not justify this expression (therefore...)

It's better to merge with the second sentence of the paragraph: «Adiponectin is a metabolically active adipokine which has anti-inflammatory, antiatherogenic, and antidiabetic properties and is therefore inversely associated with obesity, insulin resistance, and atherosclerosis»

3. "In contrast, the Health Professionals Follow-Up Study..."

The second study has not contrary results so I think it is better to begin the sentence with "On the other side" or "In addition"

RESISTIN

1. "These studies suggest that resistin may represent a novel linkage of metabolic signals, inflammation, and atherosclerosis."

This sentence should better be moved at the end of the paragraph

OMENTIN-1

1. "Omentin is highly and selectively expressed in visceral adipose tissue, and it is assumed to have paracrine and autocrine roles in improving insulin sensitivity."

This sentence is duplicated at the beginning and in the middle of the paragraph. The second one has to be omitted

CHEMERIN

1. The chemerin gene was originally described as a retinoid-responsive gene in psoriatic skin lesions

This sentence has to be moved at the beginning of the paragraph or to be omitted

Reply> Thank you very much for your kind comments. We corrected all the expression as your recommendation.

We appreciate your thoughtful comments on our manuscript. We hope that our responses are proper for your comments.

Reviewer #2:

The review of Yoo and Choi addresses an important and relevant subject where great research is still necessary. They suggested that the discovery of new adipokine that regulates the atherosclerosis process might permit advances in prevention of atherosclerosis. I believe that the explanation for atherosclerosis development may not be so simple, because there are many important interrelationships in the atherosclerosis process to the discovery of new adipokine, to be the main responsible of regulation of the atherosclerosis process. It is also important to address the pro-inflammatory and anti-inflammatory of the adipokines and also their shown cardiovascular properties and to summarize them in a table. Do you think it is important to also include in the review a new adipokine Sfrp5 with anti-inflammatory properties?

Reply> We absolutely agree with your opinion that the process of atherosclerosis is very complicated and deeply understand that numerous adipokines except those which was dealt within this manuscript, engage in the inflammatory reaction in atherosclerosis. Representatively, SFR5 is a famous anti-inflammatory adipokine that modulates metabolic dysfunction in obesity. However, we mainly summarized the adipokines that we published about their roles through clinical studies, so in this manuscript we did not write about SFRP5 and organize about these adipokines as the Table format. We ask for your consent, politely.

We appreciate your prudent comments on our manuscript. We hope that our responses are satisfactory for your comments.