Reviewer’s report

Title: Serum vaspin levels are reduced in Japanese chronic hemodialysis patients

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Reviewer: Susan Kralisch-Jäcklein

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The authors investigated vaspin serum concentrations in healthy subjects and patients undergoing hemodialysis therapy. Interestingly, vaspin was identified as an insulin-sensitizing adipokine. However, regulation of this adipocyte-secreted factor in human disease has not been determined comprehensively.

The manuscript from Inoue et al shows negatively correlated creatinine levels with serum vaspin levels in Japanese CD patients of vaspin low group. They have also pointed out that the stepwise regression analyses, creatinine, and triglycerides were independently and significantly associated with vaspin serum concentrations in all subjects after adjustment for age BMI, hemoglobin, albumin and blood glucose. The methods and the statistics are appropriate and well described. Nevertheless, the authors should reinforce their publication by a more detailed discussion. Thus, very recently a new publication (Serum Vaspin Concentrations Are Closely Related to Insulin Resistance, and rs77060950 at SERPINA12 Genetically Defines Distinct Group with Higher Serum Levels in Japanese Population.

Teshigawara S, Wada J, Hida K, Nakatsuka A, Eguchi J, Murakami K, Kanzaki M, Inoue K, Terami T, Katayama A, Iseda I, Matsushita Y, Miyatake N, McDonald JF, Hotta K, Makino H.) demonstrated that higher levels of serum vaspin in 7% of the Japanese population are closely linked to minor allele sequence (A) of rs77060950. At a minimum the authors should include these data to their manuscript.

Level of interest: An article of importance in its field

Quality of written English: Needs some language corrections before being published

Statistical review: Yes, and I have assessed the statistics in my report.

Declaration of competing interests:

I declare that I have no competing interests