Reviewer’s report

Title: Insulin treatment corrects hepcidin but not YKL-40 levels in persons with type 2 diabetes mellitus matched by Body Mass Index, Waist-to-Height Ratio, C-Reactive Protein and Creatinine

Version: 0 Date: 13 Jul 2017
Reviewer: Gustavo Santos

Reviewer’s report:

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In this presented paper, entitled "Insulin treatment corrects hepcidin but not YKL-40 levels in persons with type 2 diabetes mellitus matched by body mass index, waist-to-height ratio, C-reactive protein and creatinine", the authors showed that hepcidin is a strong marker of early changes in glucose homeostasis in prediabetes patients. Moreover, they showed that hepcidin is a better maker than YKL-40.

The paper presents huge English deficiency, which could lead to a miscommunication. It have to be solved before publication.

The Introduction of the paper is missing a lot of important information. For example, "What is the YKL-40 role and why this protein levels could be altered in a state of a glucose metabolism dysregulation?" The authors should make clearer the relationship between the proposed Markers (hepcidin and YKL-40) and the glucose metabolism. Moreover, why hepcidin and YKL-40 would be a good maker for diabetes if we already have a lot of others markers, that is used in clinics.

The Methods are well written and the authors did some modifications that made the text better. In Results, the authors added the information regarding Statistic Analysis and, for this kind of interpretation it is very necessary. So, the main results are, now, more able to be understood.

In Conclusion, with the addition of some phrases, the authors show the relevance of the study and they discuss very well with previous papers in the field. Indeed, the English still needing to be revised.

So, as suggestion, I indicate this paper for a publication, after revision:

1. English need to be revised;
2. Introduction must be revised and answer the question above.

3. The author must show how important for the treatment of diabetes are the information that they are presenting.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Yes

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Yes

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I am able to assess the statistics

Quality of written English
Please indicate the quality of language in the manuscript:

Needs some language corrections before being published

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