Reviewer’s report

Title: Association of trace metal elements with lipid profiles in type 2 diabetes mellitus patients. a cross sectional study

Version: 0 Date: 17 Apr 2017

Reviewer: Khalid Siddiqui

Reviewer's report:

Thank you very much for this interesting and systematic work demonstrating an Association of trace metal elements with lipid profiles in type 2 diabetes mellitus patients. Cross sectional study. I do have some major and minor questions:

Major concerns:

1. The study population is very heterogeneous, age, diabetes consequences and other parameters vary a lot. Please describe how subjects were selected and whether selection bias might play a role

   Table 1 also not mention diabetes duration and subject with diabetes.

2. The authors did not state a hypothesis, thus the statistical power of the findings remains unclear. Furthermore, problems of multiple testing apply and need to be checked by a statistician.

3. The role of drug treatment is not mention for the group difference in trace element concentrations are unclear and cannot be extrapolated.

4. Please discuss the outcome of this study what is importance in the patience managements.

Minor concerns:

a. The paper would benefit from language work-up by a native English speaker. Some sentences are impossible to understand.

c. Table 3.4, 5 can be merged its easy to compare all lipid parameter with trace element
Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

No

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

No

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

No

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 recommend additional statistical review

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

Needs some language corrections before being published

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