Reviewer's report

Title: Serum Vaspin Concentration in Elderly Patients with Type 2 Diabetes Mellitus and Macrovascular Complications

Version: 0 Date: 02 Mar 2017

Reviewer: Harish Ranjani

Reviewer's report:

The aim of this study was to estimate serum vaspin concentrations as related to glycemic status and the presence of macrovascular complications among elderly patients with type-2 diabetes mellitus (T2DM).

Specific Comments:

1. In the background section, lines 70-72 does not have supporting reference provided. Kindly provide reference for the following sentence - 'Diabetes mellitus has placed a heavy burden on society and in the economic development of the country.'

2. Line 80 on page 5 mentions 'Hida et al. [9] found that ..' However reference 9 does not have this author name mentioned. Kindly cross check the references and make the changes.

3. The patient selection has failed to describe on how the sample size was achieved. Kindly add few lines describing the sample size calculation.


5. The exclusion criteria mentions that participants with 'no history of tumor' were excluded from the study. Does this mean that cancer patients were also part of the study?

6. The HOMA-IR equation mentioned in line 152 should include the units of measurement wherein: HOMA-IR = FPG (nmol/L)*FINS (µU/L)/22.5.
7. There is a discrepancy noted in the number of male (M) and female (F) participants mentioned in the results section (M= 150 and F=80) and in table 1(F= 150 and M=80). Kindly rectify the error made.

8. From table 1 it is evident that the average body mass index (BMI) of the elderly patients with T2DM and/or MC was above 26 and is a clear indicator of overweight/obesity. Was BMI also used as an inclusion criterion or were most of the T2DM elderly participants overweight?

9. The significant p values depicted in tables can be denoted with * symbol. Kindly add the symbol wherever significant and add a footnote indicating the same.

10. Figure 1 can have the values depicted in the graph to add clarity. Also the spelling of vaspin concentration needs to be changed to vaspin concentration.

11. The discussion section is too elaborative and needs to be cut down.

12. This section should include a paragraph on advantages and limitations of the study.

13. The references needs to be formatted and arranged in order of the text. For example:


       The above reference nos. 9 and 13 have the titles mentioned in brackets. Also,

   c. Line nos. 262 and 271 have Nese et al. [22] and Youn et al. [26] where the reference numbers do not match the author names mentioned.

Kindly check and make the corrections throughout the article.
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.

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