Reviewer's report

Title: 11β Hydroxysteroid Dehydrogenase - 1 activity in type 2 diabetes mellitus : A comparative study

Version: 1 Date: 05 Sep 2018

Reviewer: Kabirullah Lutfy

Reviewer's report:

The manuscript by Shukla and colleagues reports on the 11betaHSD activity in diabetics and healthy controls. They used 30 diabetics and 30 healthy controls who were age-, gender and weight-matched. They also had similar systolic and diastolic blood pressure. Also, they had similar metabolic panels except alkaline phosphatase was higher in diabetics than healthy controls. Additionally, they had higher fasting blood glucose. They measured cortisol levels suppressed with defame those before and after a cortisone challenge and found that cortisol level was higher after the cortisone challenge but no change at basal level, i.e., in response to dexamethasone challenge when measured at 8 am. This response was more robust in younger diabetics (<35 years of age). Also, the delta in cortisol was higher in diabetics with sedentary lifestyle as well as in diabetics who were doing exercise regularly. Overall, the result of the study is interesting to the readers of the journal and consistent with earlier findings. While the manuscript contains useful information it is well written. Therefore, the manuscript requires a critical review prior to resubmission. Additionally, the Discussion is written as single paragraph and that needs to be prepared in paragraphs. I have made some of the changes but the authors need to critically review it to ensure the accuracy of the information. the same result is presented in figures and tables and both presentations are not necessary. P values for tables 2 and 3 should be provided. Tables 4 should be deleted. Figure Legends should be more detailed, the p values, etc., should be provided.

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 recommend additional statistical review

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

Not suitable for publication unless extensively edited

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