Reviewer’s report

Title: Predictive value of serum testosterone for type 2 diabetes risk assessment in men

Version: 0 Date: 19 Feb 2016

Reviewer: Gokulakrishnan Kuppan

Reviewer's report:

Comments:

* In abstract, kindly provide more results than detailing the methods utilizing the full word limit

* In abstract, please check the sentence (Line number:27) "values (PPV) where…..

* It is not clear whether OGTT have been done at baseline to rule out prediabetes?

* Dyslipidemia is a risk factor for diabetes whereas treatment with statins can also result in dysglycemia. Considering these diagonally opposite effects, is there any data of those individuals with dyslipidemia?

How many with dyslipidemia at baseline were treated with statins?

Was the incidence rate of diabetes different in those treated with statins?
* In the logistic regression analysis (Model 3), the authors included more covariates, which increases the risk of overfitting the model. Kindly check the potential effects of the number of covariates (for example using propensity score).

* Whether any data is available to show the effect of statin treatment on testosterone levels?

* In the discussion please comment on the generalizability of results to other ethnic populations

**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:

Acceptable

**Declaration of competing interests**
Please complete a declaration of competing interests, considering the following questions:
1. Have you in the past five years received reimbursements, fees, funding, or salary from an organisation that may in any way gain or lose financially from the publication of this manuscript, either now or in the future?

2. Do you hold any stocks or shares in an organisation that may in any way gain or lose financially from the publication of this manuscript, either now or in the future?

3. Do you hold or are you currently applying for any patents relating to the content of the manuscript?

4. Have you received reimbursements, fees, funding, or salary from an organization that holds or has applied for patents relating to the content of the manuscript?

5. Do you have any other financial competing interests?

6. Do you have any non-financial competing interests in relation to this paper?

If you can answer no to all of the above, write 'I declare that I have no competing interests' below. If your reply is yes to any, please give details below.

I declare that I have no competing interests

I agree to the open peer review policy of the journal. I understand that my name will be included on my report to the authors and, if the manuscript is accepted for publication, my named report including any attachments I upload will be posted on the website along with the authors' responses. I agree for my report to be made available under an Open Access Creative Commons CC-BY license (http://creativecommons.org/licenses/by/4.0/). I understand that any comments which I do not wish to be included in my named report can be included as confidential comments to the editors, which will not be published.

I agree to the open peer review policy of the journal