Reviewer’s report

Title: Resting heart rate and impaired glucose regulation in Chinese middle-aged and elderly people: a cross-sectional analysis

Version: 0 Date: 13 Apr 2017

Reviewer: Weijuan Li

Reviewer's report:

In this manuscript, the authors were trying to investigate the relationship between the resting heart rate and impaired glucose metabolism.

The study has several limitations:

1) This study is a cross-sectional study, and is limited by the nature of a retrospective study design. The study used a single heart rate measurement which was derived from ECG which might not represent a true resting heart rate. It would be more ideal to have multiple resting heart rate measurements and use the heart rate trend or at least an average heart rate for the analysis.

2) The authors stated that "to date, the association between resting heart rate and IGR has not yet been adequately investigated" and "To our knowledge, this is the first study to evaluate the relationship between RHR and impaired glucose regulation in a large-scale population.", this is not true. Please refer to references PMID 26002923 and PMID 27029423.

3) The authors did not fully discuss the limitations of this study.

4) There are numerous grammar mistakes in the manuscript which requires extensive editing and revision.

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.

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:

Not suitable for publication unless extensively edited

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