Reviewer’s report

Title: Additive interaction of snoring and body mass index on the prevalence of Metabolic Syndrome among Chinese coal mine employees: A Cross-Sectional Study

Version: 0 Date: 19 Jul 2018

Reviewer: Reviewer 2

Reviewer’s report:

PEER REVIEWER COMMENTS: To view the full report from the academic peer reviewer, please see the attached file.

REVIEWER COMMENTS FROM REPORT: This is a good study, but I did not understand the rationale for the study until I read the Discussion section. The authors address interesting and potentially useful biomarkers of risk for metabolic syndrome (MetS). The analysis is well done and well explained. The modelling of influence by the confounders is good and helps explain the risks for MetS.

REQUESTED REVISIONS:

I especially liked the discussion about the possible pathways by which snoring is associated with risk for MetS. I think that some of this text, now in the Discussion section, might be moved to the Introduction section. This might help readers to better understand why this study was done.

The authors acknowledge that the participants may have under-reported their snoring. I think this is a bigger concern than acknowledged by the authors. How would the participants know: a) if they snore and b) how much they snore? Other people in the participant's household might better answer these questions.

ADDITIONAL REQUESTS/SUGGESTIONS:

The English language usage is good, but there are minor issues with word usage, number agreement, and a few grammatical errors. A native English speaker should review the ms. to correct these issues.

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.

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.

Not relevant to this manuscript

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

Needs some language corrections before being published

**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.

This reviewer has been recruited by a partner organization, Research Square. Reviewers with declared or apparent competing interests are not utilized for these reviews. This reviewer has
agreed to publication of their comments online under a Creative Commons Attribution License attributed to Research Square and was paid a small honorarium for completing the review within a specified timeframe. Honoraria for reviews such as this are paid regardless of the reviewer recommendation.

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