Reviewer's report

Title: The association between lack of sleep, low vitality and impaired glucose tolerance: a Swedish cross-sectional study

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Reviewer: Zumin Shi

Reviewer's report:

The authors assessed the association between self-reported lack of sleep, low vitality and impaired glucose tolerance in a cross-sectional study in Sweden. The findings are in line with current knowledge of short sleep and diabetes. The paper is concise and well-written.

Major:

1. Is sleep duration measured in the study? What is the relationship between self-reported lack of sleep and actual sleep duration? It seems that the question used in the study covered both sleep duration and sleep quality. Some discussion on sleep quality (e.g. PSQI) is needed.

2. It is not known what the prevalence of lack of sleep in the population. The information should be provided in Table 1.

3. Information on alcohol consumption was not mentioned. It would be desirable to adjust for this lifestyle factor.

Minor

1. Table 1-p value should be presented

2. Information on measurement of cholesterol was not mentioned in the method part.

3. As the distribution of lack of sleep was not shown, it is not able to assess whether the study had enough sample power especially among women.

4. It was mentioned that the sample included both participants living in urban and rural areas. Is the association differs between urban and rural?

5. The authors sailed on page 11 that “ these questions have been used and validated in other studies with reliable findings.” Please provide references.

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: Yes, and I have assessed the statistics in my report.

Declaration of competing interests:
I declare that I have no competing interests