Reviewer's report

Title: Analysis of influencing factor of coexisting prediabetes and prehypertension in adult residents of Jilin Province

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Reviewer: Indulekha Karunakaran

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Title: Analysis of influencing factor of coexisting prediabetes and prehypertension in adult residents of Jilin Province

Journal: BMC Endocrine disorders

In a Chinese province, the authors conduct a study on a sample of 4,143 subjects and estimate the prevalence of pre-hypertension and hypertension.

1. The language and presentation of the manuscript should be substantially improved and the statements made should be scientifically correct. For instance, in the methods section the authors state 'According to the 2010 China chronic disease and its risk factor monitoring questionnaire [14], after the increase or decrease of some items, a professionally trained investigator adopts a unified questionnaire and fills in a questionnaire to conduct a questionnaire survey. Including: general demographic characteristics (age, gender, ethnicity, education, marital status, occupation, place of birth), eating habits (vegetables, meat intake, smoking, drinking) and biochemical indicators about diabetes or hypertension (PFG, 2hOGTT, systolic, diastolic, TC, TG, HDL-L, LDL-L)'. what do the authors mean by 'increase or decrease of certain items'? removal of certain sections from the questionnaire?; the investigator fills in a questionnaire? does this mean administration of questionnaire to subjects? 'Adopted' in place of adopts; The word 'Including' is standing alone ; and how can a questionnaire survey provide TC, TG, HDL and LDL and what are PFG, HDL-L and LDL-L?

The whole manuscript is replete with such errors which makes reading and understanding the manuscript very difficult.

2. The authors should clearly state the novel findings of their study in light of the various other studies on diabetes and hypertension prevalence in china with substantially large number of study subjects (BMJ Open. 2018; 8(3): e020126, Zhonghua Yu Fang Yi Xue Za Zhi. 2018 Feb 6;52(2):158-164. etc). Also, BMI, waist and TG are already known as risk factors of diabetes and hypertension.
3. The background section is highly inadequate. The authors should present clear arguments on why they want to do the study.

4. The mean co-efficient of variation of the measurement of the biochemical parameters should be provided in the methods section.

5. When was the study conducted? What is the time period of the study? How were the subjects randomly selected?

6. The terms `Simple prediabetes´ and `simple pre-hypertension´ should be replaced with `only pre-diabetes´ and `only pre-hypertension´.

7. Results section: logistic regression analysis - why did the authors include nationality and place of residence as variables, when only Chinese nationals and residents of Jilin province were included?

8. Only the logistic regressions are discussed in the discussion section. This section should provide interpretations and discussion of findings in light of the available literature.

**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.

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:

Not suitable for publication unless extensively edited

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