Reviewer's report

Title: Risk Factors of Hypertension among Adults Aged 35-64 Years Living in an Urban Slum Nairobi, Kenya

Version: 2 Date: 10 July 2015

Reviewer: Linghui Meng

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Hypertension is an emerging public health problem. It is more and more serious in low wealth index countries recently. This article surveyed the prevalence and risk factors of hypertension in urban in including Sub Saharan Africa (SSA) to offset the paucity of information on hypertension and associated risk factors among urban slum dwellers in SSA. Overall the use of a standard reporting guide e.g. STROBE would be helpful for this type of study. Numerous information biases are possible with cross-sectional studies such as this, which are not always well described or commented on. The article, if pursued by the Editors, would benefit from further editing and writing assistance.

Major Compulsory Revisions

1. Methods
Page 4-5 – Methods of sampling is a little poorly described. How the sample was recruited and how is the representativeness should be described. The inclusion criteria and the exclusion criteria, the measurement of blood pressure should be introduced in detail. The matters needing attention, environment temperature, measurement time, measurement position should be introduced in detail, too. Because of blood pressure is the main index of this survey. If the BP monitor has been verified with the standard international protocol? If yes should be noted clearly, if not should be explained the reason. Clearly this could be a large source of bias for this type of study.

2. Questionnaire – details and validity of this are not presented.

Smoke – the reference of current smoking is not clear, how to define the non smokers and past smoker should be introduced in detail.

3. Regression – how was this performed? What methods exactly were used to include and remove variables?

4. Results
In table 1 the results of comparison between the genders should be added as additional column in this table

5. In table 3 the definitions of major variables, the calculation method of AOR, and the abbreviations should be added as notes of this table.
6. Figure 1 isn't suitable for describing the prevalence rates of normal, prehypertension, stage 1 hypertension, and stage 2 hypertension, because the different color areas included those both SBP and DBP are higher than the criteria, not include those only SBP or only DBP is higher than the criteria.

7. Fig 2 if the difference between both genders has statistic significance should be indicated clearly in this figure.

Minor Essential Revisions
1. If the quality control has been done in this survey, if yes should be introduced in the method part;
2. "Male and female", "men and women" should be consistent in one paper;
3. Some spelling mistakes should be corrected, and some syntactic errors should be mentioned and corrected by someone whose mother language is English carefully.

Level of interest: An article of outstanding merit and interest in its field

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

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