Reviewer’s report

Title: Prevalence of Metabolic syndrome in Saudi Arabia - a cross sectional study

Version: 0 Date: 21 Jun 2017

Reviewer: Bishwajit Bhowmik

Reviewer’s report:

Reviewer comments

Thank you for submitting the valuable article to BMC Endocrine Disorders. I have appreciated to give a chance for reviewing your article. The article "Prevalence of Metabolic syndrome in Saudi Arabia" is an informative article which has examined the prevalence of metabolic syndrome and its related risk factors in Saudi Arabia. I presume that the current study provides clinically valuable information, however the authors should reply to some questions and criticism.

Abstract: Background is not clear. Author should clearly write the context and purpose of the study.

Introduction: Author should clearly write the context and purpose of the study. Author should write few lines on consequences of MS. Author should be careful about reference citation.

Materials and Methods:

Comment 1: Method section needs more organization and coherence. Reviewer wants to know how do you define urban and rural areas in Saudi Arabia.

Comments 2: Author should clearly describe procedures of anthropometric measurements. in table 1, author presented the hip and WHR. Reviewer has not found any information about hip and WHR in method section.

Comment 3: Few more informations should be included in Laboratory section. Example: amount of blood, sample transfer procedure, storage in central laboratory, procedure of LDL measurement in case of high Tg (>400 mg/dl).

Comments 4: Authors should clearly define all the components presented in tables and figures.

Statistical analysis:

Comment 1: How do you control the skewed data. e.g Triglyceride
Results:

Comment 1: Result section needs more organization and coherence. Most of table are really busy. Author should think about all type of readers.

Comment 2: Author can add a table to describe the distribution of MetS among participants according to their demographic characteristics rather giving table 1.

Comment 3: Data presentation in table 1 are not inform. Author should write either number (%) or % (number).

Comment 4: Author should add the legend in tables and figure. Reviewer has not find any tittle in figures.

Comment 5: Author should correct the typing errors in table 3.

References:

Comment 1: Author should follow the journal instructions regarding citation.

Language:

Comment 1: Need careful review. Author should check and correct the typing errors specially in tables.

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.
I am able to assess the statistics

**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 organisation 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.

I declare that I have no competing interests

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/](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