Reviewer's report

Title: Association between Serum Uric Acid and Metabolic Syndrome Components in Prepubertal Obese Children (Tanner Stage I) from Nuevo León, Mexico - A Preliminary Study

Version: 0 Date: 20 Apr 2017

Reviewer: Ju-Sheng Zheng

Reviewer's report:

The authors presented an interesting work on the cross-sectional correlation between serum uric acid and MetS and its components. My major concerns are the appropriate usage of epidemiologic terminology, such as prevalence, incidence, odds ratio, and reporting of the results with sufficient details, such as sample size and covariates for each analysis /model.

1. Abstract: Page 4, line 22. "Increase in each unit of sUA": please provide the exact unit for the sUA you mentioned here; "higher probability of the presence of MetS" please change the sentence to "higher odds ratio of MetS".

2. Abstract: Page 5, line 5 conclusion. Please change "hyperuricemia" to "uric acid". Hyperuricemia is a binary status, which you did not examine in the paper.

3. Background: Page 5, line 17. Please change "incidence of MetS" to "prevalence of metabolic syndrome (MetS)", and then use the abbreviation MetS next time you mentioned metabolic syndrome.

4. Page 7, line 16-17. Please provide a reference for the definition of Metabolic syndrome

5. Page 9, line 2. Please change "odd-ratio" to "odds ratio".

6. Page 10, line 6. "each unit of sUA", unit of the sUA should be given here.
7. Page 10, line 7-8. "increase in sUA also raise the probability": this is the observational study, you could not use word like "increase" or "raise", which imply causality. Please change to "higher in sUA is associated with higher odds ratio of high waist circ... high TG and low HDLc"

8. Page 10, line 17. Change "incidence" to "prevalence"; line 20, 21: change "hyperuricemia" to "sUA".

9. Page 12, before conclusion section. Please add a paragraph discussing the limitation of the study, which a common rule in reporting the results from epidemiological studies.

10. Page 12, line 21. please change "hyperuricemia" to "sUA".

11. Table 3: please change "95% IC" to "95% CI" in the table. Please also provide the unit for the variables listed in the table, including age, uric acid and BMI. For gender, please be clear it is women compared with men or men compared with women in the model. In addition, please change "Waist circumference" to "Abdominal obesity (waist circumference>90th percentile)", and change "Triglyceride" to "High triglyceride (≥150 mg/dL)", and change "HDL-C" to "low HDL-C (<40 mg/dL)". Please do not use Model 1 Model 2 Model 3 or Model 4, which would confuse the readers. Replace them directly with the sample size of the analysis, such as Metabolic syndrome (n=59).

12. Please check across the manuscript that describe abbreviation when first mentioned and then use the abbreviation thereafter, such as MetS and sUA. Please do not mix abbreviation and full name across the manuscript.

13. Please also consult with an epidemiologist for appropriate usage of epidemiological words.
Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

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:

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.

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/). 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