Reviewer’s report

Title: HYPERURICEMIA AND METABOLIC SYNDROME IN TYPE 2 DIABETES MELLITUS PATIENTS AT HAWASSA UNIVERSITY COMPREHENSIVE SPECIALIZED HOSPITAL, SOUTH WEST ETHIOPIA

Version: 0 Date: 14 Oct 2017

Reviewer: Indulekha Karunakaran

Reviewer's report:

Title: HYPERURICEMIA AND METABOLIC SYNDROME IN TYPE 2 DIABETES MELLITUS PATIENTS AT HAWASSA UNIVERSITY COMPREHENSIVE SPECIALIZED HOSPITAL, SOUTH WEST ETHIOPIA

Journal: BMC Endocrine disorders

The authors have assessed the prevalence of hyperuricemia in a sample of type 2 diabetes mellitus patients. They have also shown the association of hyperuricemia with metabolic syndrome in the study subjects. There are several issues in the manuscript which should be addressed.

1. Line 36: it is mentioned that "the specimen was centrifuged at 3000 cycles per minute”. Do the authors mean revolutions per minute (rpm). If so, the sentence should be corrected as 3000 rpm.

2. In the methods section, the methods by which the biochemical analyses of HDL-C, triglycerides, Fasting blood sugar and uric acid were analyzed should be provided.

3. Table 1: the author's should explain what is DDM in the footnote of the table.

4. In the results section, the authors state that "The prevalence of hyperuricemia was higher among female study subjects when compared to male (22.3% versus 11.5% respectively)". However, in table 1, the prevalence of hyperuricemia in females is 11.5%. This error in interpretation of the results should be corrected.

5. In table 1, 133 normouricemic patients with metabolic syndrome constituted 42.4%; whereas in table 2, the same number constituted 42.3%. Great care should be taken to avoid such errors in mathematical calculations.

6. Table 3 provides the crude and adjusted odds ratios. Information on what are the variables adjusted while deriving the AOR is missing in the manuscript.
7. The footnote of table 3 mentions that p<0.2 is considered significant and marked with an asterisk. However p=0.2 is marked significant in the table (urban vs rural), another instance of careless manuscript preparation. Further, in the statistical analysis section, the authors say that p< 0.05 is considered significant. These discrepancies should be corrected.

**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.

No

**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:

Acceptable

**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