Reviewer's report

Title: Risk factors of metabolic syndrome among adult Sudanese sickle cell anemia patients

Version: 0 Date: 14 Mar 2018

Reviewer: Karen Cordovil

Reviewer's report:
Congratulations for your work.
I found it original and interesting.
Below are some comments

1. It was not clear whether the research was with all genotypes or only with the Hb SS genotype.
   In the title is SCA and throughout the SCD text. The authors should make clear when unlocking the title, in the text and in the tables that the genotypes were placed in the study.

2. In the reference session, it is necessary to standardize them. Review one by one, according to the journal guidelines.

3. Review all references in the text. For example, in the discussion (line 163-166) the text talks about waist circumference but reference number 8 is related to a study of SCD in children. Check the references in the text.

4. The waist circumference has different patterns. In Brazil it is considered 94 cm for men and 80 cm for women. But you have put different references. that's right? Are the cut-point values you put in the latest international literature?

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:
Acceptable

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Please complete a declaration of competing interests, considering the following questions:

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