Reviewer's report

Title: Association between obesity and metabolic co-morbidities among children and adolescents in South Korea: the 2007-2008 Korea National Health and Nutrition Examination Surveys

Version: 2 Date: 27 September 2013

Reviewer: Bing Lu

Reviewer's report:

Minor Essential Revisions

This is a well-written manuscript. I have several questions or minor comments:

1. The study sample included 1526 subjects out of 3618 children. The possible selection bias should be evaluated. How different was the sub-sample from the total sample?

2. Given the cross-sectional design, the paper should discuss the limitations in depth, including possible recall bias, reverse-causation bias, etc.

3. The analysis used many cut-off points to define obesity, central obesity, such as, WC>90th percentile, BMI>85 percentile, it is not clear these cut-off points were based on your sample, or national criteria.

4. PAR % was full PAR or partial PAR? Another word, did you adjust for other covariates in PAR calculation?

5. Table 1 and 2 should be combined into one table. Using categorical or continuous scale should be subject to clinical sense.

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

Quality of written English: Acceptable

Statistical review: Yes, and I have assessed the statistics in my report.

Declaration of competing interests:

'I declare that I have no competing interests