Reviewer's report

Title: Prevalence of the Metabolic Syndrome Using Three Proposed Definitions among Chinese Adults in Shanghai

Version: 1 Date: 20 March 2010

Reviewer: Jong-Dar Chen

Reviewer's report:

This is a nice paper on an interesting topic. However, I want to raise some important remarks and suggestions.

The cross-sectional study, performed by Xu et al in 5584 Chinese adults randomly selected from Pudong New area of Shanghai, China. The study has been well performed in a large population, and it gives interesting and important results in this area. However, I want to raise some important remarks and suggestions.

Comments (minor essential revisions):
1. Page 7, Data collection paragraph:
   The WC was measured at a level of 2.5 cm above the umbilicus, did it correct? The stand measurement is measured at the midline between the lower border of the ribs and the iliac crest in the horizontal plane after a normal expiration. It is very important since the WC is a major criteria for the MetS

2. Page 25, Table 4:
   Dyslipidemia was most strongly associated with the MetS, but the authors only adjusted the age in the logistic regression model. Since the BMI and alcohol consumption are important confounders for triglyceride, I will suggest adjust these confounders in the logistic regression model.

3. Figure 1:
   In my opinion, Figure 1 should be modified and make it more readable.

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

I declare that I have no competing interests