Reviewer’s report

**Title:** The hypertriglyceridemic-waist phenotype predicts prediabetes and diabetes: a cohort study in Chinese urban adults

**Version:** 1  **Date:** 17 July 2012

**Reviewer:** Kaijun Niu

**Reviewer’s report:**

This is a prospective cohort study investigating whether the hypertriglyceridemic-waist phenotype is a useful screening method for prediabetes and diabetes prediction among a Chinese population. The authors have reported that the hypertriglyceridemic-waist phenotype was strongly related to prediabetes and diabetes over a 3-year period. This paper is important for this research field. The authors need to consider the following comments in modifying their manuscript.

1. The authors should provide the total population number and exclusionary processes in the methods section.
2. Because all of the participants received a health check-up during the follow-up period and were included in the final analysis, the authors should use logistic analysis to test the relationship between the hypertriglyceridemic-waist phenotype and prediction of prediabetes and diabetes.
3. The authors stated: “These 4 phenotype groups were categorized based on the mean values of waist circumference and serum triglyceride”. Because the authors supposed that the hypertriglyceridemic-waist phenotype may be a simple screening method for diabetes, it is necessary to show how the phenotype groups were categorized according to baseline values relative to diabetes.
4. As most lifestyle factors were not assessed in this study, the authors should consider how this will influence the results.
5. In general, systolic blood pressure was highly correlated with diastolic blood pressure. Thus, the authors should provide the result of multicollinearity.

**Level of interest:** An article of importance 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'