Reviewer's report

Title: Different associations between obesity and impaired fasting glucose depending on serum gamma-glutamyltransferase levels within normal range: a cross-sectional study

Version: 2
Date: 3 May 2014
Reviewer: Xingwang Ye

Reviewer's report:

The authors reported that the associations between obesity and impaired fasting glucose (IFG) depended on serum gamma-glutamyltransferase (GGT) levels among Korean adults aged 40 years and over in a cross-sectional survey: those with highest level of GGT and BMI ≥25kg/m2 had an unproportionally higher risk for IFG than their counterparts with other levels of GGT and BMI. These findings are interesting and novel for few relevant data are available. The major limitation is the cross-sectional design.

Major revisions: None.

Minor revisions:
1) There are also some grammar errors in the Method and Result sections.
2) In the statistical analysis section, how interaction terms were constructed was not mentioned.
3) Two same figures were uploaded.

Discretionary Revisions:

What were the associations among the three liver enzymes (GGT, ALT and AST)? Why GGT, but not ALT and AST had significant interactions with obesity on IFG?

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

Quality of written English: Needs some language corrections before being published

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.