Reviewer’s report

Title: Triglycerides and total Cholesterol concentrations in Association with IFG/IGT in Chinese Adults in Qingdao, China

Version: 1 Date: 27 Nov 2017

Reviewer: Hematram Yadav

Reviewer's report:

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Methods

The way the participants were selected form the three provinces is not clear. Was it a cluster sampling, random sampling or convenience?

For weight and height measurement there would have been many different scales used. Was calibration done on the instruments used and was the BP digital or mercury and was all this standardised in all the provinces.

Results

Statistical methods used are slight confusing.
In Table 2 there were many variables that were significant and in the multiple regression it would have been better using the stepwise regression or taking the significant variables in the multiple regression. After the multiple regression ROC could have been done using those variables.

Since the authors separated the findings to males and females was it the intention to develop 2 predictive models using all the significant variables (one for males and the other for females?)

What was the purpose of the 4 models in Table 3? The AUROC took into consideration of only the TG and TC. Could we have taken into consideration more variables in the AUROC to get a better predictive model?

A correlation could have been done between TG and TC and if the correlation was high maybe one variable could have been used?

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.
No

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?
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