Reviewer's report

Title: Clinical characteristics and beta-cell function in Chinese patients with newly diagnosed type 2 diabetes mellitus with different levels of serum triglyceride

Version: Date: 12 March 2015

Reviewer: Junia Santos-Silva

Reviewer's report:

The aim of this manuscript was to determine whether there is a functional correlation between plasma TG levels and T2DM progression in Chinese patients. There are some suggestions for manuscript improvement.

Major Compulsory Revisions:

1. The manuscript in general is very difficult to read and follow, so someone needs to carefully read the entire manuscript to make sure everything is understandable with only a single reading. I strongly suggest an English review.

2. The expression 'drug native' for T2DM (lines 35, 63, 74 for example) should be explained.

3. Since all individuals enrolled into this study had newly diagnosed T2DM, authors should avoid saying that only to the group who presented higher TG content.

4. Authors should mention the number of the Ethical Committee Approval.

5. Results and Discussion:

5.1 Why not divide the groups into 4, as done in table 2 and figure 2? By dividing into 4 groups, the statistical differences remains between groups (BMI, HDL-C, LDL-C, HbA1c etc) in table 1 and figure 1?

5.2 Authors should include the total n for each group in table 1.

5.3 Authors state that insulin action (figure 2f) is increased in the group 1 and “stayed the same” in groups 2, 3 and 4. They should discuss the results in comparison to the literature and, as the graphic shows, the insulin action reduces when TG levels raised, therefore, did not remain the same.

5.4 Instead of saying that more studies are needed, authors should propose a mechanism by which better management of dyslipidemia could improve glucose homeostasis in T2DM.
Level of interest: An article of insufficient interest to warrant publication in a scientific/medical journal

Quality of written English: Not suitable for publication unless extensively edited

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 interest's