Reviewer’s report

Title: Indices of insulin sensitivity and secretion from a standard liquid meal test in subjects with type 2 diabetes, impaired and normal fasting glucose

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Reviewer: Hiromichi Kumagai

Reviewer’s report:

This preliminary study examined the usefulness of a standard liquid meal test for discriminating type 2 diabetes, IFG and NFG by using the products of AUC insulin/glucose and the Matsuda index. The results indicated that the products of AUC insulin/glucose and the Matsuda index was significantly different between type 2 diabetes, IFG and NFG. From this result, the authors concluded that the standard liquid meal tolerance test may be a useful tool for assessing insulin secretion and sensitivity.

The study is interesting and the manuscript is well written.

The reviewer has some comments on this manuscript.

Major Compulsory Revisions

1. It is uncertain how the authors determined the amount and contents of the test meal. If it is similar to other studies, the references should be shown in the text.

2. The authors calculated AUC and the Matsuda index between 0-120 min after the meal loading. Is there any difference for these values and the products of these values if the data between 0-240 min were used.

Discretionary Revisions

3. Figure 3 and 4. Data of each subject should be plotted on these figures. This helps better understanding of each category.

Level of interest: An article of outstanding merit and interest in its field

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.