**Reviewer’s report**

**Title:** Single-dose acarbose decreased glucose-dependent insulinotropic peptide and glucagon levels in Chinese patients with newly diagnosed type 2 diabetes mellitus after a mixed meal

**Version:** 0  **Date:** 02 Apr 2016

**Reviewer:** Daisuke Yabe

**Reviewer’s report:**

The manuscript entitled "Single-dose acarbose influences incretin levels in Chinese patients with newly diagnosed type 2 diabetes mellitus" reports effects of single-dose acarbose reduced secretions of insulin, glucagon and GIP, but not GLP-1 in Chinese individuals newly diagnosed as type 2 diabetes. The overall results are consistent with previous reports, indicating that the current manuscript has a limited novelty in the field. While the study design is straightforward and the manuscript is well written, there are several issues requiring appropriate revisions before its publication in the journal.

Specific comments:

1. Since incretin and glucagon immunoassays have been an issue of debate (J Diabetes Complications. 2015 Apr;29(3):445-50; Endocr Connect. 2015 Mar;4(1):50-7), the authors should describe cross-reactivity of each assay kit, or cite appropriate references for each kit.

2. The authors should provide reasonable discussions why glucagon secretions were suppressed by acarbose in the MTT group. Normally, glucagon secretion is enhanced by amino acids and fatty acids while it is suppressed by glucose. In this context, glucagon secretion might be enhanced by acarbose after meal ingestions.

3. The authors should compare the current findings with the previous Caucasian data in the context of ethnic differences. As widely accepted, pathophysiology of East Asian type 2 diabetes is different from that of Caucasian (Curr Diab Rep. 2015 Jun;15(6):602).

**Are the methods appropriate and well described?**
If not, please specify what is required in your comments to the authors.

Yes

**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?
If not, please explain in your comments to the authors.

Yes

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I am able to assess the statistics

Quality of written English
Please indicate the quality of language in the manuscript:

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