Reviewer’s report

Title: Diacylglycerol oil for the metabolic syndrome

Version: 2 Date: 17 October 2007

Reviewer: Makoto Ayaori

Reviewer’s report:

General

Minor Essential Revisions (such as missing labels on figures, or the wrong use of a term, which the author can be trusted to correct)

The author presents the mechanisms involved in attenuated postprandial hyperlipidemia and adiposity by ingesting diacylglycerol and its potential therapeutic agent against metabolic syndrome.

Overall this a well written review which gives an update on the last breakthroughs in this field.

I believe few implements could be made:

- Yasunaga et al. (J Lipid Res. 2007 May;48(5):1108-21) reported that diacylglycerol reduced plasma TG levels, after oral or intravenous DAG, result from more efficient clearance of DAG by both LPL lipolysis and apoE-mediated hepatic endocytosis. The authors should discuss LPL-dependent mechanisms.

What next?: Accept after minor essential revisions

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.