Reviewer's report

Title: Positional distribution of palmitic acid in palm oil improves weight gain, blood lipid metabolites and fat deposition in a pediatric pig model

Version: 1 Date: 17 February 2011

Reviewer: morse B solomon

Reviewer's report:

Minor Revisions:

Review of Paper by Ponnampalan et al:
General comments: Paper is very well written and well designed to answer the question whether positional distribution of palmitic acid in palm oil has any effects on fat and lipid characteristics using a pediatric pig model.
Specific comments:
P2 Results section 3rd line experimental period (which was what?)
P2 Results section 4th line delete the word were” PO were tended“
P3 Conclusions section….. these observations on plasma TG (but the researchers do not provide any results and information on plasma TG in the Abstract so I don’t think it is appropriate to mention TG in conclusions. If they want to mention them they should say something about them in the Results section.
P3 Background section: last paragraph 3rd line list some of the shorter chain saturated fats referring to.
P4 M&M section: provide references the differences between chemical and enzymatic modification treatments
P5 Sample collection section: How much muscle and fat tissue collected form longissimus lumborum site. And was the fat collected only subcutaneous fat? not intermuscular/seam fat.

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’