Reviewer's report

Title: Obesity-induced inflammation: the link to insulin resistance and modulation by dietary fats

Version: 1 Date: 17 June 2013

Reviewer: Anoop Misra

Reviewer's report:

Major Compulsory Revisions

1. The authors have made a significant attempt of explaining the relationship between type of fat and obesity and insulin resistance, however, while dealing with fats too much of emphasis has been laid on saturated fatty acids alone while total dietary fat has been completely ignored and incomplete treatment has been done with Trans fatty acids (TFA), which is a key concern at present and has been shown to have a robust relationship with insulin resistance, the review would be incomplete if some concrete and significant details are not mentioned on TFA and total fat.

2. No detail on the search strategy for formulating this review has been provided; the time period from which the studies have been selected is also not mentioned.

3. The manuscript lacks connectivity within the individual sections.

4. There is a lot of repetition in the manuscript which slows down the pace and flow.

5. The manuscript needs to be re-checked for grammatical errors

Discretionary Revisions

6. Page 4, paragraph 2: a brief description of role of brown adipose tissue should be included.

Quality of written English: Needs some language corrections before being published

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'