Reviewer's report

Title: Anti-inflammatory effect of rosiglitazone is not reflected in expression of NFkappaB-related genes in peripheral blood mononuclear cells of patients with type 2 diabetes mellitus

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Reviewer: Niels Juel J Christensen

Reviewer's report:

The authors have shown that the anti-inflammatory effect of Rosiglitazone cannot be demonstrated in the gene expression level in inflammatory genes obtained from blood mononuclear cells. Of the 84 NF-#B related genes measured only a few demonstrated significantly changes.

I offer the following comments.

1. The real time PCR assay is not a quantitative assay. Results are based on the fold-response. The data cannot be expressed in amol or zmol.
2. Gene expression levels were not measured after stimulation with e.g. LPS
3. Gene expression was only studied in the fasting state and not after culture.
4. Finally, I believe that PPAR is mainly but not exclusively expressed on macrophages. It would have been preferable if the mononuclear cells had been studied after culture and after development of macrophages from monocytes.
5. The fact that blood mononuclear cells per se do not express PPAR# responsive genes is of course of general interest.

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Acceptable

Statistical review: Yes, and I have assessed the statistics in my report.

Declaration of competing interests:

'I declare that I have no competing interests'