Reviewer's report

Title: Phenotypic Differences between young adult Pakistani and Norwegian Patients with Type 2 Diabetes: a cross sectional Study

Version: 1 Date: 19 March 2013

Reviewer: Samiul Mostafa

Reviewer's report:

There is some novelty in this paper, as there are very few studies which have directly measured insulin resistance/ sensitivity (i.e. not just HOMA models) in people of South Asian origin (native or migrant). In this way, this paper does add to the literature as better methods have been employed, albeit the results are verging on being similar (e.g. reference 2). However there is some interesting data on NEFA as well which appears to be novel. the paper is reasonably well written.

Weakness:

1) The major disadvantage is that there are a huge number of statistical tests performed in this study. I appreciate the authors have chosen a p value of <0.01 to accomodate this, but they should also consider the aim/ main themes of the study and focus on these - possibly this is lost at some points. Only 39 people underwent glucose clamping, there are more controls, but still a small population.

Minor points

1) title: I think the title could be more specific - is it just phenotypic differences? You need something to reflect that you are looking at metabolic differences/ responses (perhaps insulin sensitivity/ NEFAs) as well.

2) tell the readers more about il-1. I think the average reader will know more about Il-6 in relation to the risk of diabetes but not as much about il-1. perhaps in the discussion

Methods:

5) Height and weight were measured with participants wearing light clothing and no shoes. Grammar. without any shoes on etc. would be better.

6) The results section is too long at three pages - it should be a summary of the main results - the tables can describe the rest of the data.

Level of interest: An article of importance 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:

none