Reviewer's report

Title: The Association of Sedentary Behaviors and Body Mass Index Classification in a Cross-Sectional Analysis: Are the Effects Homogenous?

Version: 2 Date: 10 August 2011

Reviewer: Kiran Nanchahal

Reviewer's report:

Major compulsory revisions

1. The abstract needs to better reflect the findings in the paper: Sedentary behaviour and physical activity are not the same thing and this should be reflected in the conclusion.

2. The results section simply repeats the values given in the tables. It would be better to draw out key findings and comparisons across variables. Also, an interpretation of the beta values from the regression would be more appropriate than repeating the values already provided in the tables.

3. The same applies to the F values given later in the results section.

4. The Discussion should not include results already given, but put the study in context of findings by other researchers.

Minor revisions

1. It is unclear to me what being 'minimally classified' means - this term is used several times in the abstract.

2. The methods state that households were sampled - clarify if this sampling method has been accounted for in the statistical analysis.

3. It is unclear how a wider range of classifications allow for 'more precise estimates' (p7).

4. Clarify why hours watching television was measured as a categorical rather than a continuous variable.

5. State the units wherever values are given for variables e.g. 13.53 on p11.

Level of interest: An article of importance in its field

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.