Reviewer's report

Title: Longitudinal analyses of indoor temperature and body mass index in children: the PIAMA birth cohort study

Version: 1 Date: 25 April 2013

Reviewer: Fiona Johnson

Reviewer's report:

This is a well written paper addressing an area of substantial interest. Publication of results which do not support emerging hypotheses are particularly important if the scientific community is to establish which lines of enquiry merit further attention. At present there is very little published epidemiological data addressing this hypothesis (despite substantial supporting evidence from laboratory studies) and this paper makes a very valuable contribution.

1. Is the question posed by the authors well defined? Yes
2. Are the methods appropriate and well described? Yes
3. Are the data sound? Yes
4. Does the manuscript adhere to the relevant standards for reporting and data deposition? No information provided
5. Are the discussion and conclusions well balanced and adequately supported by the data? Yes
6. Are limitations of the work clearly stated? Yes
7. Do the authors clearly acknowledge any work upon which they are building, both published and unpublished? Yes
8. Do the title and abstract accurately convey what has been found? Yes
9. Is the writing acceptable? Yes

• Discretionary Revisions - Some mention in the introduction of the compensatory behaviours which might prevent weight gain (clothing adjustments / reduced energy intake etc) would be beneficial. There are a large number of detailed tables. Could these be reduced in number or abbreviated?
• Minor Essential Revisions - Provide information on how the subgroup of objectively measured temperatures was selected
• Major Compulsory Revisions - None

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