Reviewer's report

Title: Air pollution exposure estimation using dispersion modelling and continuous monitoring data in a prospective birth cohort study in the Netherlands

Version: 2 Date: 21 December 2011

Reviewer: Giulia Cesaroni

Reviewer's report:

The authors have considerably improved their paper, unfortunately I still have concerns about republication of published material. The methodology for air pollution exposure assessment was well described in reference 19, I do not think there is the need of a new paper on this subject.

As the authors write to the editor, the new aims in this work are to provide the distribution of exposure levels for different periods of the prenatal and postnatal phase, and to present the levels according to maternal and infant characteristics. These aims need to be highlighted at the end of introduction section.

However only the description of the cohort and of exposure levels limits the interest in the paper, especially because important papers on the Generation-R Study have already been published.

Level of interest: An article of limited interest

Quality of written English: Acceptable

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