Reviewer's report

Title: Residential traffic exposure and pregnancy-related outcomes in mother and child: The Generation R Study

Version: 1  Date: 1 November 2009

Reviewer: Lisbeth E. Knudsen

Reviewer's report:

The manuscript reports no significant associations between residential traffic exposure and birth outcome in 6000 births in the Generation R study. Exposures were assessed by combing GIS information with roadmaps and traffic density. Pregnancy and birth data were recorded from hospital records and questionnaires. Comparable studies have been performed and are mentioned, however no discussion of size of study populations and powers of this study and comparable studies has been given. A table is suggested. The discussion should include validity of exposure assessment eg compared to monitoring and biomonitoring data as described eg in Pedersen et al (2009)Increased micronuclei and bulky DNA adducts in cord blood after maternal exposures to traffic-related air pollution Environ Res.109:1012-1020

Perspectives for future analyses of the hypothesis could be given.

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: Yes, but I do not feel adequately qualified to assess the statistics.

Declaration of competing interests:

'I declare that I have no competing interests'