Reviewer's report

Title: Childhood fish oil supplementation modifies associations between road density and allergic sensitisation

Version: 0 Date: 11 Jan 2018

Reviewer: Hae-Kwan Cheong

Reviewer's report:

This study presents a challenging issue on the effect of intervention of fish oil supplementation during childhood on the risk of asthma development from traffic-related air pollution. The manuscript is well written and in spite of strong limitation of small sample size and potential misclassification of the TRAP, effect of intervention is clear. I would agree on the publication of this paper in the journal. I would like to recommend the following issues need to be described and in the main text and discussion.

1. The 616 final subjects were recruited out of 2095 eligible participants and at the end of follow up, only 399 participants were left. Please discuss the potential selection bias issue in the recruitment and loss of follow up of the initial RCT participants.
2. It is suggested to include a discussion on the role of epigenetics, i.e., potential effect of fish oil supplementation on the modulation of DNA methylation with the TRAP-related asthma development in the discussion section.

Level of interest

Please indicate how interesting you found the manuscript:

An exceptional article

Quality of written English

Please indicate the quality of language in the manuscript:

Acceptable
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