Reviewer's report

Title: Modification of additive effect between vitamin and ETS on childhood asthma risk by GSTP1 polymorphism: a cross sectional study

Version: 2 Date: 26 February 2015

Reviewer: Susanna Esposito

Reviewer's report:

Lee et al. evaluated the relationship between dietary antioxidant intake and ETS according to GSTP1 polymorphism and associated risk of asthma in children aged 7-12 years. The topic is interesting, although revisions are needed.

1. In the Introduction, the section on genetic polymorphisms in relation to antioxidant response but also in relation to asthma should be expanded with an adequate analysis of the available literature.

2. In the Methods, details on how sample size was calculated in relation to study aims are mandatory.

3. HWE of gene polymorphism should be added in the results.

4. Parental history of asthma was low in the study population. Specific comments on this issue are needed.

5. In the Discussion, the authors should consider the absence of a control group.

6. In the Discussion, the authors should expand speculation on genetic polymorphisms in relation to antioxidant response but also in relation to asthma.

7. The conclusion on the increased intake of dietary antioxidants is not supported by the data and has to be deleted.

4. The authors did not include a control group

Level of interest: An article of importance in its field

Quality of written English: Needs some language corrections before being published

Statistical review: Yes, and I have assessed the statistics in my report.

Declaration of competing interests:

I declare that I have no competing interests.