Reviewer’s report

Title: Early antibiotic exposure and development of asthma and allergic rhinitis in childhood

Version: 1 Date: 24 Apr 2019

Reviewer: Kiwako Yamamoto-Hanada

Reviewer’s report:

Thank you for revising the manuscript. However, I have several comments to the authors.

"Correlated" should be replaced to "associated" in the abstract section and results section.

Background

The authors focused on chronic diseases. Although allergic diseases may be included in the chronic diseases, it is unclear why the authors focused only allergic diseases. The authors had better mention about the background of allergic diseases.

Table 4 and table 5

The authors mentioned only OR. Does OR mean adjusted OR? I think the authors should show both OR and aOR, and add the explanations about the adjusted factors below the tables.

Discussion

In the last paragraph, the authors mentioned "our data suggests that antibiotic exposure past the first year of life may still have a significant impact on the microbiota". However, the authors did not show the associations between the antibiotic exposure "in the first year of life" and allergic diseases in the study. The authors should revise the explanation.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Yes

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Yes

**Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?**

If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I am able to assess the statistics

**Quality of written English**

Please indicate the quality of language in the manuscript:

Acceptable

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