Reviewer’s report

Title: Early-life exposure to humidifier disinfectant determines the prognosis of lung function in Children

Version: 0 Date: 06 Sep 2019

Reviewer: Chan Lu

Reviewer's report:

1. In Table 3, the authors used a term with a formula of "HD exposure intensity (μg/m3)/ weight at exposure (%)" and "HD exposure intensity during sleep (μg/m3)/ weight at exposure (%)". Did you define this term and formula by yourself or you used it from other literature? If the former, please give some description about your definition and/or provide related references. If the latter, please add the references for this formula.

2. Based on the results in Table 3, there is a significant difference in the association between Corrected DLco and "HD exposure intensity (μg/m3)/ weight at exposure (%)" only during sleep but not the whole day. Could the author explain why and what makes the difference between daytime and nighttime.

3. In Table 3, you do have the data of fetal exposure, but no significant effect was observed for fetal exposure on lung function in such infants. I suggest the authors to do the multi-window model by further adjusting for first-year exposure to see whether the fetal exposure significantly influence the childhood lung function.

4. Does the survey include the parents' data for environmental tobacco smoke or parental atopy (such as asthma or allergies) because these two factors are important issues when you address lung function or related outcomes? If the authors have no such data, please add limitation or give some other reference(s) which showed no influence.

5. All the Figures are not clear. Please make it clearer.
6. In Figures 1-3 and additional Figures 1-3, please add or provide the p-values between different groups or between boys and girls. Or you could just give the p-values at significant level (p<0.05) in the figures.

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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