Author's response to reviews

Title: Low birth weight AT TERM and the presence of fine particulate matter and carbon monoxide in the Brazilian Amazon: a population-based retrospective cohort study.

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Author's response to reviews: see over
To Ms Janelyn Ann Cruz

Dear Ms. Cruz,

Please, see below the author’s report based on the editorial comments.

1. “Title: revised to “Low birth weight AT TERM and the presence of fine particulate matter and carbon monoxide in the Brazilian Amazon: a population-based retrospective cohort study”
   
   Done. The expression AT TERM was included.

2. Line 27: biomes on TERM low birth weight

   Done. Expression included.

3. Line 175: First, we conducted univariable analysis between LBW and MATERNAL FACTORS

   Corrected. The word “adjusted” was changed to “maternal”

4. Lines 183-186: Therefore, the variable of ?month of birth? was used as an indicator variable in the exploratory analysis. However, ?month of birth? was not associated with LBW when evaluated in univariable analysis (p<0.20), so was not included in the regression model.

   Revised. The sentence was correct and rewritten accordingly.

5. Lines 197-200: This form of STRATIFICATION allowed greater clarity and simplicity for data presentation. Finally, ONLY these variables (newborn sex, type of delivery, number of prenatal visits, mother’s education, and age group) were used to adjust the model. The level of .......

   Revised. Sentence was rewritten.

6. Line 252: delete “a”

   Done.

7. Lines 270-277: correct the font so it is the same as the rest of the document. Replace “retardation” (lines 271,272) with RESTRICTION and retarded (line 277) with RESTRICTED

   Done. Font is now Time New Roman 12. The two words were replaced as suggested.
8. Lines 288-290: delete the sentence: “However, in multivariable analysis, we found positive associations between LBW and interaction terms of maternal age of risk × PM2.5 interquartile ranges and maternal age of risk × CO interquartile ranges.” New findings should not be presented in the discussion - see earlier reviews. Add - However our a priori maternal age stratification resulted in only a small group of women aged >39 years.

**Corrected.** The sentence was deleted and the suggested sentence added at the end of the paragraph.

9. Line 292-299: Delete this paragraph - also new findings

**Done.** Paragraph was deleted.

10. Line 317: Specifically in Brazil, about 9% of women aged 18 years ARE SMOKERS and 11% of women are exposed to passive smoking[46]. (IS THIS CORRECT? The sentence is not clear as currently written)

**Yes, it is correct.** The sentence was rewritten.

11. Table 4 - I think this table reports ADJUSTED odds ratios - please correct the title. Correct footnote * MODEL ADJUSTED FOR newborn sex, ...... Delete the 2nd footnote - statistical significance is obvious from the 95%CI."

**Done.** All the proposed corrections for the table were made.

Best wishes,

Sandra Hacon