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.

Authors:

Ageo M C Silva (ageoms@hotmail.com)
Gisele P Moi (gisele_pedroso_moi@gmail.com)
Inês E Mattos (imattos@ensp.fiocruz.br)
Sandra S Hacon (sandrahacon@gmail.com)

Version: 8 Date: 21 July 2014

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. Line 3 “Title: revise 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 160: First, we conducted univariable analysis between LBW and MATERNAL FACTORS
   
   Corrected. The word “adjusted” was changed to “maternal factors”

4. Lines 167-170: 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 180-182: 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 231: delete "a"
   
   Done.

7. Lines 245-254: correct the font so it is the same as the rest of the document. Replace "retardation" (lines 249) with RESTRICTION and retarded ((line 255) with RESTRICTED

   Done. Font is now Time New Roman 12. The two words were replaced as suggested.
8. Lines 262-264: 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 266-268: Delete this paragraph - also new findings

**Done.** Paragraph was deleted.

10. Line 283: 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