Author’s response to reviews

Title: Gestational exposure to endocrine disrupting chemicals in relation to infant birth weight: A Bayesian analysis of the HOME Study

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Response to Reviewers for manuscript ENHE-D-17-00050 “Gestational exposure to endocrine disrupting chemicals in relation to infant birth weight: A Bayesian analysis of the HOME Study”

We would like to thank the editor and both reviewers for their insightful comments. These were instrumental in guiding the revision process for this manuscript.

Response to Reviewer Report

Add institutional addresses to the title page. Currently only the institution is listed.

The institutional addresses for the authors is listed on the title page, lines 5-11. “1Faculty of Health Sciences, Simon Fraser University, Blusson Hall, Rm 11300, 8888 University Drive, Burnaby, British Columbia, Canada, V5A 1S6; 2Child and Family Research Institute, BC Children's and Women's Hospital, 950 West 28th Avenue, Vancouver, British Columbia, Canada, V5Z 4H4; 3 Department of Epidemiology, Brown University, Box G-S121-2, 121 South Main St, Providence, Rhode Island, USA, 02912; 4Department of Statistics and Actuarial Science, University of British Columbia, Faculty of Science, 3182 Earth Science Building, 2207 Main Mall, Vancouver, British Columbia, Canada, V6T 1Z4.”

On the title page, the funding sources are listed lines 14 through 17, please remove and place under the Declarations or Acknowledgments, as appropriate.
The funding sources were removed as requested and placed under Declarations (pg. 19, lines 6-11). "Funding: The Simon Fraser University Faculty of Health Sciences Mowafaghian Child Health Foundation Endowment, Canadian Institutes of Health Research Planning and Dissemination Grant (R711337) and the National Institute of Environmental Health Sciences (R00 ES020346, R01 ES024381, R01 ES025214, P01 ES11261, R01 ES014575, and R01 ES020349) all provided funding for this study."

On the title page, the key words appear on lines 18 and 19. Please move down to under the abstract on the second page.

Thank you for providing guidance. The keywords have been removed from the title page and are now beneath the abstract (pg. 2, lines 20-21).

In the abstract on Page 2, please push the Conclusion down to Line 18 from Line 16 so not included in the Results paragraph.

Thank you for this comment. The conclusion for the abstract has been pushed down so as to not be included in the results (pg. 2, line 17). :" Results: For a 10-fold increase in chemical concentration, the mean differences in birth weights (95% credible intervals (CI)) were 1 g (-20, 23) for phthalates, -11 g (-52, 34) for PFAS, 0.2 g (-9, 10) for PCBs, -4 g (-30, 22) for PBDEs, and 7 g (-25, 40) for OCPs.

Conclusion: Gestational exposure to phthalates, PFAS, PCBs, PBDEs, OCPs or OPPs had null or small associations with birth weight. Gestational OPP, Pb, and PFAS exposures were most strongly associated with lower birth weight."

Please remove the numbers for each of the sections. For example 1. Background.

In revision the manuscript, all numbers for the sections of the paper were removed (pg. 3, line 1; pg. 5, line 16-17; pg 6, lines 7 and10; pg. 7, lines 8 and 19; pg. 9, line 15; pg. 14, line 3; pg 17., line 1).

The sentence in the Declarations/Competing Interests section on Page 19 Lines 1 and 2 can be deleted, as Drs. Braun and Lanphear are not editors, but members of the edboard. If desired, the corrected sentence can be left in.
Thank you for this correction. The sentence regarding Drs. Braun and Lanphear has been removed. The Competing Interested section now reads 'none' (pg. 19, lines 3-4). "Competing Interests: None."