Reviewer's report

Title: Prenatal Maternal and Childhood Bisphenol A Exposure and Brain Structure and Behavior of Young Children

Version: 1 Date: 09 Jul 2019

Reviewer: Joseph Braun

Reviewer's report:

The authors have adequately addressed most of my comments with some exceptions. Moreover, I have a few additional comments.

1. The authors state that they only examined modification by child sex if sex was a significant predictor of the outcome. However, I am not aware of the requirement that a modifier be a significant predictor of the outcome in order to modify the association between an exposure and the same outcome. Again, I strongly encourage the authors to report sex-stratified analyses (regardless of statistical significance), and associated sex x exposure effect measure modification p-values. Thus, the statement on Page 15, lines 19-36 is incorrect and cannot be evaluated without reviewing the sex-stratified analysis. Also, with regard to the age modification, the analyses should be presented stratified by age.

2. Page 17, line 55: The maternal and prenatal seem redundant in this sentence and are potentially confusing since it could imply that this is the mother's BPA exposure while she was a fetus.

3. Results section: It would be helpful and avoid problems with selective reporting if the authors presented all the betas/CIs in a table or supplement so that they can be fully evaluated or considered in future reviews/meta-analyses. This is particularly important given the study's low statistical power.

4. Figure 2: Please specify what was adjusted for in this model.

5. It is still not completely clear what covariates were adjust for in the final model. Clarifying this with the table suggested above would help. Page 12, line 43 implies that sex and age were included in the final model. It seems particularly important to evaluate the impact of adjusting for age on the beta coefficient (not the p-value) given that MD decreases with age (Page 14, line 41).

6. Page 12, line 19: Urine creatinine is typically reported in mg/dL.

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