Author's response to reviews

Title: Risk factors for childhood obesity: shift of the entire BMI distribution vs. shift of the upper tail only in a cross sectional study

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Risk factors for childhood obesity: shift of the entire BMI distribution vs. shift of the upper tail only in a cross sectional study

Dear Dr Norton, dear Dr Bucceri,

Thank you for considering our paper for publication in *BMC Public Health*. We appreciate the constructive comments of the reviewers and have changed the manuscript according to their suggestions. The reviewers’ comments (bold type) have been numbered and answered as follows:

**Major compulsory revisions**
1. Comparison of quantiles of different distributions (as defined by the risk factors) is presented with Tukey mean-difference plots. A table concerning the BMI values at specific quantiles according to risk factors would be very helpful in the presentation of the results.

Following the reviewer’s suggestion we added table 1 showing BMI values at specific quantiles (please see table 1 and first paragraph of the results).

**Minor essential revisions**
2. Some changes in style should be made. For example:

   In Tukey mean-difference plots:
   "Exposed, N (%)=" instead of "n expo"
   "Not Exposed, N (%)” instead of "n no expo"

The titles of the graphs should be changed as follows:
"Maternal overweight" instead of "maternal overweight yes/no"

Following the reviewer’s comment we revised all plot titles and the legends of the Tukey mean-difference plots.

We hope that the revised version of the MS can now be considered for publication in *BMC Public Health*. Thank you for your kind consideration and efforts,

André Michael Toschke