Author's response to reviews

Title: Analysis of the contribution of FTO, NPC1, ENPP1, NEGR1, GNPDA2 and MC4R genes to obesity in Mexican children

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Associate editor comment

Please remove the column for OR in Supp Table 1 because there is only one value (1.25). Rather inform the legend with the OR 1.25. Please add in the text or the legend why 1.25 was chosen.

Response: We have removed the column for OR and changed the legend accordingly:
“The odds ratio of 1.25 was chosen according to published obesity case-control studies with the same size [1, 2].”

References:


Please include the Conclusion section in the main manuscript. This should state clearly the main conclusions of the research and give a clear explanation of their importance and relevance. Summary illustrations may be included.

Response: We have now included the Conclusion section in the main manuscript:
“In conclusion, in our sample of Mexican children, we replicated four European obesity-related genes (GNPDA2, and nominally, NEGR1, MC4R and ENPP1) in the same direction of effect as previous findings, except for ENPP1. Interestingly, we found two novel association signals: between NPC1 variant and fasting serum insulin levels, and between MC4R variant and fasting plasma glucose levels. These findings should deserve some confirmatory studies in other Mexican populations. It is noteworthy that these well established genetic associations with obesity explain very little of the genetic risk for pediatric phenotype, suggesting the existence of additional loci whose number and effect size remain unknown, which guarantee intense additional investigations in the near future.”