**Additional file 4.** Effects of *in utero*/first year of life near-road freeway NOx on 4-year childhood BMI trajectories for male and female children.

|  |  |  |  |
| --- | --- | --- | --- |
| **Freeway NOx Exposure (ppb)** | **BMI growth per yeara** Effect (95% CI) |  | **BMI at age 10 yearsa** Effect (95% CI) |
| Male | Female |  | Male  | Female |
| *In utero*b | 0.08 (-0.01, 0.2) | 0.009 (-0.09, 0.1) |  | 0.4 (-0.2, 0.9) | -0.07 (-0.6, 0.5) |
| First year of lifec  | 0.1 (0.02, 0.2)\* | 0.07 (-0.02,0.2) |  | 0.7 (0.07, 1.1)\* | 0.2 (-0.5, 0.8) |

a BMI growth and BMI at age 10 years scaled to 2 standard deviations of *in utero* near-road freeway NOx exposure with 40.1ppb and first year of life near-road freeway NOx with 39.1 ppb. Models adjusted for age, race/ethnicity, parental education, Spanish questionnaire, and childhood near-road freeway NOx exposure.

b *In utero* model, males=1057, females=1014.

c First year of life model, males=1173, females=1145.

\*p<0.05

Interaction p-values for in utero: pinteraction BMI growth=0.05, pinteraction BMI at age 10=0.19

Interaction p-values for first year of life: pinteraction BMI growth=0.062, pinteraction BMI at age 10=0.25