**Supplement 3 – Sensitivity analyses restricted to women with at least three complete BMI data points and women who were not pregnant at the first three surveys of the ALSWH**

Table S1a. Associations between maternal pre-pregnancy BMI trajectories and risk of being classified as developmentally vulnerable/at-risk on the AEDC (Relative risk (RR) and 95% Confidence interval (CI)) (N=606)

|  |  |  |  |
| --- | --- | --- | --- |
|  | Gross and fine motor skills | Language & cognitive skills | Communication skills & general knowledge |
|  | Unadjusted | Adjusted | Unadjusted | Adjusted | Unadjusted | Adjusted |
|  | RR | 95% CI | RR | 95% CI | RR | 95% CI | RR | 95% CI | RR | 95% CI | RR | 95% CI |
| Pre-pregnancy BMI trajectory  |  |  |  |  |  |  |  |  |  |  |  |  |
| Normative | 1.00 |  | 1.00 |  | 1.00 |  | 1.00 |  | 1.00 |  | 1.00 |  |
| Chronically overweight | 1.27 | 0.93, 1.72 | 1.26 | 0.93, 1.71 | 1.10 | 0.77, 1.56 | 1.08 | 0.72, 1.63 | 1.07 | 0.76, 1.50 | 1.06 | 0.75, 1.49 |
| Chronically obese | 2.00 | 1.27, 3.17 | 1.88 | 1.17, 3.01 | 1.91 | 1.13, 3.23 | 1.79 | 0.91, 3.50 | 2.38 | 1.57, 3.59 | 2.24 | 1.47, 3.40 |

*Models were adjusted for maternal age, area of residence, parity, education, smoking and physical activity reported at the survey immediately prior to the survey interval in which the child was born.*

Table S1b. Associations between maternal pre-pregnancy BMI trajectories and risk of suspected gross motor delay on the ASQ (relative risk (RR) and 95% confidence interval (CI)) (N=735)

|  |  |  |
| --- | --- | --- |
|  | Unadjusted | Adjusted |
|  | RR | 95% CI | RR | 95% CI |
| Pre-pregnancy BMI trajectory  |  |  |  |  |
| Normative | 1.00 |  | 1.00 |  |
| Chronically overweight | 1.01 | 0.51, 1.98 | 1.08  | 0.55, 2.13 |
| Chronically obese | 2.89 | 1.41, 5.89 | 2.51  | 1.21, 5.21 |

*Models* *were adjusted for maternal age, area of residence, parity, education, smoking and physical activity reported at the survey immediately prior to the survey interval in which the child was born*.