## Table S1: Maternal Cortisol and Child EED Biomarkers

| Maternal Cortisol and Child EED Biomarkers | Outcome | N | 25th Percentile | 75th Percentile | Outcome, 75th Percentile v. 25th Percentile | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | Unadjusted | | | | | Adjusted | | | | |
|  |  |  |  |  | Predicted Outcome at 25th Percentile | Predicted Outcome at 75th Percentile | Coefficient (95% CI) | P-value | FDR Corrected P-value | Predicted Outcome at 25th Percentile | Predicted Outcome at 75th Percentile | Coefficient (95% CI) | P-value | FDR Corrected P-value |
| Ln Cortisol (ug/dL) | Ln Lactulose 3 months (mmol/L) | 344 | 2.64 | 3.29 | -0.60 | -0.46 | 0.14 (-0.01, 0.29) | 0.07 | 0.37 | -1.14 | -0.85 | 0.28 (0, 0.56) | 0.05 | 0.39 |
|  | Ln Mannitol 3 months (mmol/L) | 344 | 2.64 | 3.29 | 1.59 | 1.72 | 0.13 (-0.01, 0.27) | 0.07 | 0.37 | 1.00 | 1.13 | 0.13 (-0.02, 0.29) | 0.10 | 0.51 |
|  | Ln MPO Age 3 months (ng/mL) | 283 | 2.62 | 3.29 | 8.67 | 8.77 | 0.1 (-0.07, 0.26) | 0.25 | 0.58 | 9.13 | 9.07 | -0.06 (-0.28, 0.16) | 0.60 | 0.82 |
|  | Ln A1AT Age 3 months(mg/g) | 283 | 2.62 | 3.29 | -0.72 | -0.74 | -0.02 (-0.23, 0.18) | 0.83 | 0.88 | -0.74 | -0.74 | -0.01 (-0.21, 0.2) | 0.96 | 0.96 |
|  | Ln NEO Age 3 months (nmol/L) | 283 | 2.62 | 3.29 | 6.82 | 6.86 | 0.04 (-0.07, 0.15) | 0.51 | 0.81 | 6.90 | 6.95 | 0.05 (-0.09, 0.19) | 0.50 | 0.82 |
|  | Ln Lactulose 14 months (mmol/L) | 488 | 2.52 | 3.26 | -1.31 | -1.41 | -0.1 (-0.26, 0.06) | 0.22 | 0.58 | -1.25 | -1.35 | -0.11 (-0.27, 0.05) | 0.19 | 0.74 |
|  | Ln Mannitol 14 months (mmol/L) | 488 | 2.52 | 3.26 | 0.85 | 0.82 | -0.03 (-0.18, 0.13) | 0.75 | 0.88 | 0.67 | 0.66 | -0.01 (-0.17, 0.15) | 0.91 | 0.96 |
|  | Ln MPO Age 14 months (ng/mL) | 504 | 2.50 | 3.26 | 8.61 | 8.54 | -0.08 (-0.22, 0.07) | 0.31 | 0.61 | 8.58 | 8.51 | -0.07 (-0.22, 0.07) | 0.34 | 0.82 |
|  | Ln A1AT Age 14 months(mg/g) | 504 | 2.50 | 3.26 | -0.74 | -0.92 | -0.19 (-0.34, -0.04) | 0.02 | 0.24 | -0.62 | -0.79 | -0.17 (-0.32, -0.01) | 0.03 | 0.39 |
|  | Ln NEO Age 14 months (nmol/L) | 504 | 2.50 | 3.26 | 6.83 | 6.74 | -0.08 (-0.2, 0.04) | 0.18 | 0.58 | 6.88 | 6.83 | -0.04 (-0.18, 0.09) | 0.53 | 0.82 |
|  | Ln REG1β Age 14 months (µg/mL) | 503 | 2.50 | 3.26 | 5.03 | 4.99 | -0.03 (-0.17, 0.1) | 0.64 | 0.85 | 5.03 | 5.09 | 0.06 (-0.1, 0.21) | 0.49 | 0.82 |
|  | Ln Lactulose 28 months (mmol/L) | 522 | 2.52 | 3.27 | -1.29 | -1.27 | 0.01 (-0.17, 0.19) | 0.90 | 0.90 | -1.23 | -1.28 | -0.05 (-0.21, 0.11) | 0.55 | 0.82 |
|  | Ln Mannitol 28 months (mmol/L) | 522 | 2.52 | 3.27 | 1.40 | 1.43 | 0.02 (-0.12, 0.17) | 0.78 | 0.88 | 1.30 | 1.29 | -0.01 (-0.14, 0.12) | 0.92 | 0.96 |
|  | Ln MPO Age 28 months (ng/mL) | 528 | 2.53 | 3.27 | 7.79 | 7.67 | -0.12 (-0.32, 0.08) | 0.25 | 0.58 | 8.17 | 8.23 | 0.05 (-0.14, 0.25) | 0.61 | 0.82 |
|  | Ln A1AT Age 28 months(mg/g) | 528 | 2.53 | 3.27 | -1.12 | -1.18 | -0.06 (-0.24, 0.11) | 0.50 | 0.81 | -0.92 | -0.94 | -0.02 (-0.22, 0.19) | 0.89 | 0.96 |
|  | Ln NEO Age 28 months (nmol/L) | 528 | 2.53 | 3.27 | 6.27 | 6.22 | -0.05 (-0.23, 0.13) | 0.57 | 0.83 | 5.97 | 5.86 | -0.1 (-0.27, 0.06) | 0.23 | 0.74 |
| N, 25th Percentile, and 75th Percentile are from the unadjusted analyses | | | | | | | | | | | | | | |

## Table S3: Maternal Estriol and Child EED Biomarkers

| Maternal Estriol and Child EED Biomarkers | Outcome | N | 25th Percentile | 75th Percentile | Outcome, 75th Percentile v. 25th Percentile | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | Unadjusted | | | | | Adjusted | | | | |
|  |  |  |  |  | Predicted Outcome at 25th Percentile | Predicted Outcome at 75th Percentile | Coefficient (95% CI) | P-value | FDR Corrected P-value | Predicted Outcome at 25th Percentile | Predicted Outcome at 75th Percentile | Coefficient (95% CI) | P-value | FDR Corrected P-value |
| Ln Estriol (ng/mL) | Ln Lactulose 3 months (mmol/L) | 344 | 1.00 | 1.81 | -0.56 | -0.50 | 0.05 (-0.07, 0.17) | 0.41 | 0.50 | -1.06 | -0.99 | 0.07 (0.01, 0.14) | 0.01 | 0.12 |
|  | Ln Mannitol 3 months (mmol/L) | 344 | 1.00 | 1.81 | 1.63 | 1.69 | 0.06 (-0.05, 0.17) | 0.31 | 0.46 | 1.05 | 1.16 | 0.11 (-0.05, 0.26) | 0.19 | 0.51 |
|  | Ln MPO Age 3 months (ng/mL) | 283 | 0.95 | 1.76 | 8.70 | 8.94 | 0.24 (-0.14, 0.61) | 0.21 | 0.46 | 8.95 | 8.94 | -0.01 (-0.16, 0.13) | 0.88 | 0.89 |
|  | Ln A1AT Age 3 months(mg/g) | 283 | 0.95 | 1.76 | -0.69 | -0.51 | 0.18 (-0.11, 0.48) | 0.22 | 0.46 | -0.45 | -0.27 | 0.18 (-0.12, 0.48) | 0.25 | 0.54 |
|  | Ln NEO Age 3 months (nmol/L) | 283 | 0.95 | 1.76 | 6.77 | 7.07 | 0.3 (0.06, 0.55) | 0.01 | 0.19 | 6.65 | 6.78 | 0.13 (0.03, 0.24) | 0.01 | 0.12 |
|  | Ln Lactulose 14 months (mmol/L) | 488 | 0.72 | 1.71 | -1.32 | -1.43 | -0.11 (-0.23, 0.01) | 0.07 | 0.28 | -1.10 | -1.23 | -0.12 (-0.24, 0) | 0.05 | 0.19 |
|  | Ln Mannitol 14 months (mmol/L) | 488 | 0.72 | 1.71 | 0.87 | 0.80 | -0.07 (-0.19, 0.05) | 0.23 | 0.46 | 1.02 | 0.93 | -0.09 (-0.21, 0.03) | 0.13 | 0.41 |
|  | Ln MPO Age 14 months (ng/mL) | 504 | 0.74 | 1.71 | 8.64 | 8.56 | -0.08 (-0.23, 0.07) | 0.32 | 0.46 | 8.63 | 8.55 | -0.08 (-0.27, 0.11) | 0.41 | 0.60 |
|  | Ln A1AT Age 14 months(mg/g) | 504 | 0.74 | 1.71 | -0.83 | -0.91 | -0.08 (-0.26, 0.1) | 0.40 | 0.50 | -0.73 | -0.76 | -0.03 (-0.13, 0.06) | 0.51 | 0.68 |
|  | Ln NEO Age 14 months (nmol/L) | 504 | 0.74 | 1.71 | 6.83 | 6.73 | -0.1 (-0.18, -0.01) | 0.02 | 0.19 | 6.86 | 6.75 | -0.11 (-0.22, -0.01) | 0.04 | 0.19 |
|  | Ln REG1β Age 14 months (µg/mL) | 503 | 0.74 | 1.71 | 5.04 | 4.98 | -0.06 (-0.16, 0.04) | 0.26 | 0.46 | 5.04 | 5.05 | 0.01 (-0.11, 0.14) | 0.86 | 0.89 |
|  | Ln Lactulose 28 months (mmol/L) | 522 | 0.77 | 1.73 | -1.28 | -1.25 | 0.03 (-0.09, 0.15) | 0.67 | 0.75 | -1.31 | -1.25 | 0.06 (-0.09, 0.21) | 0.41 | 0.60 |
|  | Ln Mannitol 28 months (mmol/L) | 522 | 0.77 | 1.73 | 1.52 | 1.47 | -0.05 (-0.31, 0.21) | 0.70 | 0.75 | 1.41 | 1.39 | -0.02 (-0.29, 0.24) | 0.89 | 0.89 |
|  | Ln MPO Age 28 months (ng/mL) | 528 | 0.78 | 1.74 | 7.65 | 7.64 | -0.01 (-0.17, 0.15) | 0.91 | 0.91 | 8.08 | 8.19 | 0.11 (-0.08, 0.3) | 0.27 | 0.54 |
|  | Ln A1AT Age 28 months(mg/g) | 528 | 0.78 | 1.74 | -1.14 | -1.21 | -0.06 (-0.16, 0.03) | 0.20 | 0.46 | -0.80 | -0.87 | -0.06 (-0.19, 0.06) | 0.31 | 0.54 |
|  | Ln NEO Age 28 months (nmol/L) | 528 | 0.78 | 1.74 | 6.30 | 6.20 | -0.11 (-0.22, 0) | 0.06 | 0.28 | 5.85 | 5.76 | -0.08 (-0.39, 0.23) | 0.61 | 0.75 |
| N, 25th Percentile, and 75th Percentile are from the unadjusted analyses | | | | | | | | | | | | | | |