## Table 1

| F2-isoprostanes and Child Development Year 1 | Outcome | N | 25th Percentile | 75th Percentile | Outcome, 75th Percentile v. 25th Percentile | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | Adjusted | | | | |
|  |  |  |  |  | Predicted Outcome at 25th Percentile | Predicted Outcome at 75th Percentile | Coefficient (95% CI) | P-value | FDR Corrected P-value |
| IPF(2a)-III Year 1 | Sum of 2nd, 4th, 5th, and 6th WHO motor milestones Year 1 | 592 | -0.73 | -0.08 | 1.7 | 1.75 | 0.05 (-0.22, 0.32) | 0.73 | 0.98 |
|  | CDI expressive language Z-score Year 1 | 672 | -0.72 | -0.09 | 0.31 | 0.3 | 0 (-0.15, 0.14) | 0.96 | 0.98 |
|  | CDI comprehension Z-score Year 1 | 679 | -0.73 | -0.09 | 0.55 | 0.61 | 0.06 (-0.03, 0.15) | 0.22 | 0.74 |
|  |  |  |  |  |  |  |  |  |  |
| 2,3-dinor-iPF(2a)-III Year 1 | Sum of 2nd, 4th, 5th, and 6th WHO motor milestones Year 1 | 592 | 1.54 | 1.96 | 1.54 | 2 | 0.46 (0.14, 0.79) | 0.01 | 0.2 |
|  | CDI expressive language Z-score Year 1 | 672 | 1.55 | 1.97 | 0.31 | 0.25 | -0.06 (-0.15, 0.04) | 0.25 | 0.74 |
|  | CDI comprehension Z-score Year 1 | 679 | 1.55 | 1.97 | 0.59 | 0.57 | -0.02 (-0.13, 0.08) | 0.68 | 0.98 |
|  |  |  |  |  |  |  |  |  |  |
| iPF(2a)-VI Year 1 | Sum of 2nd, 4th, 5th, and 6th WHO motor milestones Year 1 | 592 | 2.3 | 2.87 | 1.76 | 1.75 | -0.01 (-0.15, 0.14) | 0.92 | 0.98 |
|  | CDI expressive language Z-score Year 1 | 672 | 2.31 | 2.87 | 0.32 | 0.25 | -0.07 (-0.16, 0.02) | 0.14 | 0.74 |
|  | CDI comprehension Z-score Year 1 | 679 | 2.31 | 2.87 | 0.57 | 0.57 | 0 (-0.1, 0.11) | 0.94 | 0.98 |
|  |  |  |  |  |  |  |  |  |  |
| 8,12-iso-iPF(2a)-VI Year 1 | Sum of 2nd, 4th, 5th, and 6th WHO motor milestones Year 1 | 592 | 2.16 | 2.9 | 1.74 | 1.76 | 0.02 (-0.16, 0.19) | 0.87 | 0.98 |
|  | CDI expressive language Z-score Year 1 | 672 | 2.17 | 2.92 | 0.18 | 0.32 | 0.14 (-0.07, 0.36) | 0.18 | 0.74 |
|  | CDI comprehension Z-score Year 1 | 679 | 2.17 | 2.92 | 0.56 | 0.67 | 0.11 (0, 0.21) | 0.05 | 0.59 |
|  |  |  |  |  |  |  |  |  |  |
| Combined urinary oxidative stress biomarkers Year 1 | Sum of 2nd, 4th, 5th, and 6th WHO motor milestones Year 1 | 592 | 2.48 | 3.53 | 1.72 | 1.79 | 0.07 (-0.12, 0.26) | 0.46 | 0.87 |
|  | CDI expressive language Z-score Year 1 | 672 | 2.5 | 3.54 | 0.16 | 0.27 | 0.12 (-0.12, 0.35) | 0.34 | 0.84 |
|  | CDI comprehension Z-score Year 1 | 679 | 2.49 | 3.54 | 0.52 | 0.58 | 0.06 (-0.18, 0.3) | 0.62 | 0.98 |
| N, 25th Percentile, and 75th Percentile are from the adjusted analyses | | | | | | | | | |

## Table 2

| F2-isoprostanes and Child Development Year 2 | Outcome | N | 25th Percentile | 75th Percentile | Outcome, 75th Percentile v. 25th Percentile | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | Adjusted | | | | |
|  |  |  |  |  | Predicted Outcome at 25th Percentile | Predicted Outcome at 75th Percentile | Coefficient (95% CI) | P-value | FDR Corrected P-value |
| IPF(2a)-III Year 1 | EASQ Communication Score Year 2 | 566 | -0.73 | -0.08 | 0.31 | 0.34 | 0.03 (-0.05, 0.11) | 0.49 | 0.88 |
|  | EASQ Gross Motor Score Year 2 | 580 | -0.73 | -0.08 | 0.16 | 0.2 | 0.04 (-0.18, 0.26) | 0.73 | 0.98 |
|  | EASQ Personal Social Score Year 2 | 565 | -0.73 | -0.08 | 0.54 | 0.54 | 0 (-0.11, 0.11) | 0.98 | 0.98 |
|  | Combined EASQ Year 2 | 566 | -0.73 | -0.08 | 0.47 | 0.48 | 0.01 (-0.08, 0.1) | 0.88 | 0.98 |
|  | CDI expressive language Z-score Year 2 | 572 | -0.73 | -0.08 | 0.21 | 0.27 | 0.06 (-0.03, 0.15) | 0.19 | 0.74 |
|  | CDI comprehension Z-score Year 2 | 568 | -0.73 | -0.09 | 0.05 | 0.12 | 0.07 (-0.02, 0.15) | 0.14 | 0.74 |
|  |  |  |  |  |  |  |  |  |  |
| 2,3-dinor-iPF(2a)-III Year 1 | EASQ Communication Score Year 2 | 566 | 1.54 | 1.96 | 0.24 | 0.22 | -0.03 (-0.12, 0.07) | 0.61 | 0.98 |
|  | EASQ Gross Motor Score Year 2 | 580 | 1.54 | 1.96 | 0.17 | 0.11 | -0.06 (-0.32, 0.19) | 0.63 | 0.98 |
|  | EASQ Personal Social Score Year 2 | 565 | 1.54 | 1.96 | 0.55 | 0.5 | -0.05 (-0.19, 0.08) | 0.45 | 0.87 |
|  | Combined EASQ Year 2 | 566 | 1.54 | 1.96 | 0.48 | 0.42 | -0.07 (-0.18, 0.04) | 0.24 | 0.74 |
|  | CDI expressive language Z-score Year 2 | 572 | 1.54 | 1.97 | 0.24 | 0.21 | -0.03 (-0.16, 0.09) | 0.61 | 0.98 |
|  | CDI comprehension Z-score Year 2 | 568 | 1.54 | 1.97 | 0.04 | 0 | -0.05 (-0.16, 0.06) | 0.41 | 0.87 |
|  |  |  |  |  |  |  |  |  |  |
| iPF(2a)-VI Year 1 | EASQ Communication Score Year 2 | 566 | 2.3 | 2.87 | 0.25 | 0.15 | -0.09 (-0.18, 0) | 0.05 | 0.59 |
|  | EASQ Gross Motor Score Year 2 | 580 | 2.3 | 2.86 | 0.17 | 0.18 | 0 (-0.1, 0.1) | 0.98 | 0.98 |
|  | EASQ Personal Social Score Year 2 | 565 | 2.3 | 2.87 | 0.57 | 0.43 | -0.14 (-0.24, -0.03) | 0.01 | 0.2 |
|  | Combined EASQ Year 2 | 566 | 2.3 | 2.86 | 0.47 | 0.39 | -0.08 (-0.22, 0.05) | 0.2 | 0.74 |
|  | CDI expressive language Z-score Year 2 | 572 | 2.3 | 2.86 | 0.23 | 0.18 | -0.05 (-0.15, 0.05) | 0.3 | 0.8 |
|  | CDI comprehension Z-score Year 2 | 568 | 2.3 | 2.86 | 0.02 | 0.03 | 0.01 (-0.15, 0.17) | 0.91 | 0.98 |
|  |  |  |  |  |  |  |  |  |  |
| 8,12-iso-iPF(2a)-VI Year 1 | EASQ Communication Score Year 2 | 566 | 2.17 | 2.91 | 0.3 | 0.37 | 0.07 (-0.06, 0.19) | 0.29 | 0.8 |
|  | EASQ Gross Motor Score Year 2 | 580 | 2.16 | 2.91 | 0.17 | 0.25 | 0.08 (-0.03, 0.19) | 0.14 | 0.74 |
|  | EASQ Personal Social Score Year 2 | 565 | 2.17 | 2.91 | 0.53 | 0.52 | -0.01 (-0.13, 0.11) | 0.88 | 0.98 |
|  | Combined EASQ Year 2 | 566 | 2.17 | 2.91 | 0.47 | 0.52 | 0.05 (-0.07, 0.18) | 0.41 | 0.87 |
|  | CDI expressive language Z-score Year 2 | 572 | 2.17 | 2.91 | 0.21 | 0.21 | 0.01 (-0.15, 0.17) | 0.92 | 0.98 |
|  | CDI comprehension Z-score Year 2 | 568 | 2.18 | 2.91 | 0.04 | 0.13 | 0.09 (-0.01, 0.2) | 0.07 | 0.59 |
|  |  |  |  |  |  |  |  |  |  |
| Combined urinary oxidative stress biomarkers Year 1 | EASQ Communication Score Year 2 | 566 | 2.48 | 3.55 | 0.31 | 0.32 | 0.01 (-0.09, 0.11) | 0.78 | 0.98 |
|  | EASQ Gross Motor Score Year 2 | 580 | 2.49 | 3.53 | 0.17 | 0.18 | 0.01 (-0.1, 0.12) | 0.87 | 0.98 |
|  | EASQ Personal Social Score Year 2 | 565 | 2.48 | 3.54 | 0.55 | 0.5 | -0.05 (-0.16, 0.07) | 0.42 | 0.87 |
|  | Combined EASQ Year 2 | 566 | 2.48 | 3.54 | 0.47 | 0.46 | -0.01 (-0.12, 0.09) | 0.82 | 0.98 |
|  | CDI expressive language Z-score Year 2 | 572 | 2.48 | 3.53 | 0.2 | 0.25 | 0.04 (-0.06, 0.14) | 0.45 | 0.87 |
|  | CDI comprehension Z-score Year 2 | 568 | 2.49 | 3.53 | 0.04 | 0.1 | 0.06 (-0.04, 0.17) | 0.24 | 0.74 |
| N, 25th Percentile, and 75th Percentile are from the adjusted analyses | | | | | | | | | |

## Table 3

| Salivary Stress Biomarkers and Child Development | Outcome | N | 25th Percentile | 75th Percentile | Outcome, 75th Percentile v. 25th Percentile | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | Adjusted | | | | |
|  |  |  |  |  | Predicted Outcome at 25th Percentile | Predicted Outcome at 75th Percentile | Coefficient (95% CI) | P-value | FDR Corrected P-value |
| Pre to post-stress change in slope of sAA Year 2 | EASQ Communication Score Year 2 | 577 | -4.49 | 0.08 | 0.15 | 0.14 | -0.01 (-0.07, 0.04) | 0.64 | 0.82 |
|  | EASQ Gross Motor Score Year 2 | 594 | -4.4 | 0.08 | 0.03 | 0 | -0.03 (-0.09, 0.03) | 0.32 | 0.65 |
|  | EASQ Personal Social Score Year 2 | 595 | -4.4 | 0.08 | 0.26 | 0.15 | -0.12 (-0.34, 0.11) | 0.33 | 0.65 |
|  | Combined EASQ Year 2 | 576 | -4.48 | 0.08 | 0.19 | 0.06 | -0.12 (-0.32, 0.08) | 0.22 | 0.54 |
|  | CDI expressive language Z-score Year 2 | 583 | -4.46 | 0.08 | 0.04 | 0.04 | 0 (0, 0) | 0 | 0.08 |
|  | CDI comprehension Z-score Year 2 | 579 | -4.44 | 0.08 | -0.13 | -0.17 | -0.04 (-0.09, 0.02) | 0.19 | 0.54 |
|  |  |  |  |  |  |  |  |  |  |
| Pre-Stressor SAA Year 2 | EASQ Communication Score Year 2 | 600 | 3.49 | 4.64 | 0.32 | 0.26 | -0.06 (-0.15, 0.04) | 0.22 | 0.54 |
|  | EASQ Gross Motor Score Year 2 | 619 | 3.49 | 4.64 | 0.2 | 0 | -0.2 (-0.37, -0.04) | 0.02 | 0.28 |
|  | EASQ Personal Social Score Year 2 | 621 | 3.49 | 4.64 | 0.39 | 0.38 | -0.01 (-0.12, 0.11) | 0.93 | 0.96 |
|  | Combined EASQ Year 2 | 600 | 3.49 | 4.64 | 0.45 | 0.29 | -0.17 (-0.36, 0.03) | 0.1 | 0.41 |
|  | CDI expressive language Z-score Year 2 | 606 | 3.5 | 4.64 | 0.12 | 0.06 | -0.06 (-0.21, 0.09) | 0.43 | 0.71 |
|  | CDI comprehension Z-score Year 2 | 602 | 3.49 | 4.65 | -0.03 | -0.06 | -0.03 (-0.15, 0.08) | 0.59 | 0.82 |
|  |  |  |  |  |  |  |  |  |  |
| Post-Stressor SAA Year 2 | EASQ Communication Score Year 2 | 587 | 3.94 | 5.16 | 0.29 | 0.29 | 0 (-0.09, 0.09) | 0.97 | 0.97 |
|  | EASQ Gross Motor Score Year 2 | 604 | 3.94 | 5.15 | 0.11 | 0.1 | -0.02 (-0.11, 0.08) | 0.77 | 0.89 |
|  | EASQ Personal Social Score Year 2 | 605 | 3.94 | 5.15 | 0.49 | 0.54 | 0.05 (-0.05, 0.15) | 0.35 | 0.67 |
|  | Combined EASQ Year 2 | 586 | 3.94 | 5.15 | 0.35 | 0.36 | 0.01 (-0.09, 0.1) | 0.92 | 0.96 |
|  | CDI expressive language Z-score Year 2 | 593 | 3.94 | 5.15 | 0.09 | 0.11 | 0.02 (-0.07, 0.12) | 0.62 | 0.82 |
|  | CDI comprehension Z-score Year 2 | 589 | 3.94 | 5.15 | -0.03 | 0.01 | 0.04 (-0.05, 0.13) | 0.42 | 0.71 |
|  |  |  |  |  |  |  |  |  |  |
| Change in Slope of Cortisol Year 2 | EASQ Communication Score Year 2 | 560 | -0.01 | 0 | 0.25 | 0.2 | -0.05 (-0.13, 0.04) | 0.29 | 0.65 |
|  | EASQ Gross Motor Score Year 2 | 575 | -0.01 | 0 | -0.06 | -0.04 | 0.02 (-0.09, 0.13) | 0.72 | 0.87 |
|  | EASQ Personal Social Score Year 2 | 577 | -0.01 | 0 | 0.28 | 0.36 | 0.08 (-0.17, 0.33) | 0.54 | 0.81 |
|  | Combined EASQ Year 2 | 559 | -0.01 | 0 | 0.27 | 0.25 | -0.02 (-0.11, 0.07) | 0.68 | 0.84 |
|  | CDI expressive language Z-score Year 2 | 566 | -0.01 | 0 | -0.08 | 0.16 | 0.24 (0.02, 0.46) | 0.03 | 0.29 |
|  | CDI comprehension Z-score Year 2 | 561 | -0.01 | 0 | -0.27 | -0.14 | 0.12 (-0.01, 0.25) | 0.08 | 0.39 |
|  |  |  |  |  |  |  |  |  |  |
| Pre-Stressor Cortisol Year 2 | EASQ Communication Score Year 2 | 604 | -2.51 | -1.66 | 0.33 | 0.27 | -0.06 (-0.15, 0.03) | 0.2 | 0.54 |
|  | EASQ Gross Motor Score Year 2 | 623 | -2.51 | -1.65 | 0.12 | 0.09 | -0.04 (-0.16, 0.09) | 0.59 | 0.82 |
|  | EASQ Personal Social Score Year 2 | 625 | -2.51 | -1.66 | 0.57 | 0.54 | -0.03 (-0.23, 0.18) | 0.8 | 0.9 |
|  | Combined EASQ Year 2 | 604 | -2.51 | -1.66 | 0.45 | 0.29 | -0.16 (-0.36, 0.03) | 0.1 | 0.41 |
|  | CDI expressive language Z-score Year 2 | 610 | -2.51 | -1.66 | 0.26 | 0.23 | -0.03 (-0.12, 0.06) | 0.51 | 0.79 |
|  | CDI comprehension Z-score Year 2 | 606 | -2.51 | -1.66 | 0.03 | -0.09 | -0.12 (-0.3, 0.07) | 0.22 | 0.54 |
|  |  |  |  |  |  |  |  |  |  |
| Post-Stressor Cortisol Year 2 | EASQ Communication Score Year 2 | 565 | -2.08 | -0.63 | 0.42 | 0.27 | -0.15 (-0.32, 0.02) | 0.07 | 0.39 |
|  | EASQ Gross Motor Score Year 2 | 580 | -2.07 | -0.63 | 0.06 | 0.01 | -0.05 (-0.17, 0.06) | 0.37 | 0.67 |
|  | EASQ Personal Social Score Year 2 | 582 | -2.08 | -0.62 | 0.49 | 0.47 | -0.01 (-0.13, 0.11) | 0.86 | 0.93 |
|  | Combined EASQ Year 2 | 564 | -2.07 | -0.63 | 0.54 | 0.34 | -0.2 (-0.38, -0.03) | 0.02 | 0.28 |
|  | CDI expressive language Z-score Year 2 | 571 | -2.06 | -0.62 | 0.22 | 0.14 | -0.08 (-0.19, 0.03) | 0.17 | 0.54 |
|  | CDI comprehension Z-score Year 2 | 566 | -2.06 | -0.63 | -0.03 | -0.14 | -0.11 (-0.22, 0) | 0.04 | 0.32 |
| N, 25th Percentile, and 75th Percentile are from the adjusted analyses | | | | | | | | | |

## Table 4

| SAM Biomarkers and Child Development | Outcome | N | 25th Percentile | 75th Percentile | Outcome, 75th Percentile v. 25th Percentile | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | Adjusted | | | | |
|  |  |  |  |  | Predicted Outcome at 25th Percentile | Predicted Outcome at 75th Percentile | Coefficient (95% CI) | P-value | FDR Corrected P-value |
| Mean Arterial Pressure Year 2 | EASQ Communication Score Year 2 | 603 | 60.78 | 69.11 | 0.28 | 0.34 | 0.05 (-0.17, 0.28) | 0.66 | 0.96 |
|  | EASQ Gross Motor Score Year 2 | 621 | 60.78 | 68.89 | 0.06 | 0.07 | 0.01 (-0.21, 0.23) | 0.92 | 0.96 |
|  | EASQ Personal Social Score Year 2 | 602 | 60.78 | 69.11 | 0.63 | 0.5 | -0.12 (-0.35, 0.11) | 0.31 | 0.96 |
|  | Combined EASQ Year 2 | 603 | 60.78 | 69.11 | 0.42 | 0.36 | -0.06 (-0.28, 0.16) | 0.63 | 0.96 |
|  | CDI expressive language Z-score Year 2 | 609 | 60.89 | 69.11 | 0.17 | 0.18 | 0.01 (-0.2, 0.21) | 0.96 | 0.96 |
|  | CDI comprehension Z-score Year 2 | 606 | 60.81 | 69.11 | 0.05 | 0.04 | -0.01 (-0.23, 0.22) | 0.96 | 0.96 |
|  |  |  |  |  |  |  |  |  |  |
| Resting Heart Rate Year 2 | EASQ Communication Score Year 2 | 606 | 98.08 | 117.67 | 0.28 | 0.31 | 0.03 (-0.06, 0.11) | 0.58 | 0.96 |
|  | EASQ Gross Motor Score Year 2 | 624 | 98.33 | 117.67 | 0.11 | 0.08 | -0.02 (-0.12, 0.07) | 0.62 | 0.96 |
|  | EASQ Personal Social Score Year 2 | 605 | 98 | 117.67 | 0.43 | 0.44 | 0.01 (-0.09, 0.11) | 0.87 | 0.96 |
|  | Combined EASQ Year 2 | 606 | 98 | 117.67 | 0.37 | 0.39 | 0.02 (-0.07, 0.12) | 0.68 | 0.96 |
|  | CDI expressive language Z-score Year 2 | 612 | 98 | 117.67 | 0.12 | 0.12 | -0.01 (-0.1, 0.08) | 0.9 | 0.96 |
|  | CDI comprehension Z-score Year 2 | 608 | 98 | 117.67 | -0.02 | -0.04 | -0.02 (-0.11, 0.07) | 0.73 | 0.96 |
| N, 25th Percentile, and 75th Percentile are from the adjusted analyses | | | | | | | | | |

## Table 5

| Glucocorticoid receptor methylation and Child Development | Outcome | N | 25th Percentile | 75th Percentile | Outcome, 75th Percentile v. 25th Percentile | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | Adjusted | | | | |
|  |  |  |  |  | Predicted Outcome at 25th Percentile | Predicted Outcome at 75th Percentile | Coefficient (95% CI) | P-value | FDR Corrected P-value |
| Entire promoter region (39 assayed CpG sites) Year 2 | EASQ Communication Score Year 2 | 601 | 0.22 | 0.49 | 0.27 | 0.26 | -0.02 (-0.23, 0.19) | 0.88 | 0.96 |
|  | EASQ Gross Motor Score Year 2 | 615 | 0.22 | 0.48 | 0.07 | 0.09 | 0.02 (-0.04, 0.08) | 0.46 | 0.96 |
|  | EASQ Personal Social Score Year 2 | 618 | 0.22 | 0.48 | 0.45 | 0.4 | -0.04 (-0.29, 0.21) | 0.76 | 0.96 |
|  | Combined EASQ Year 2 | 601 | 0.22 | 0.49 | 0.29 | 0.27 | -0.02 (-0.26, 0.21) | 0.84 | 0.96 |
|  | CDI expressive language Z-score Year 2 | 607 | 0.22 | 0.49 | 0.16 | 0.04 | -0.12 (-0.33, 0.08) | 0.24 | 0.96 |
|  | CDI comprehension Z-score Year 2 | 603 | 0.22 | 0.49 | -0.03 | -0.07 | -0.04 (-0.26, 0.18) | 0.74 | 0.96 |
|  |  |  |  |  |  |  |  |  |  |
| NGFI-A transcription factor binding site (CpG site #12) Year 2 | EASQ Communication Score Year 2 | 342 | -4.65 | -4.16 | 0.15 | 0.15 | 0 (-0.1, 0.1) | 0.99 | 0.99 |
|  | EASQ Gross Motor Score Year 2 | 350 | -4.65 | -4.16 | -0.02 | 0.18 | 0.2 (0, 0.4) | 0.05 | 0.59 |
|  | EASQ Personal Social Score Year 2 | 353 | -4.65 | -4.16 | 0.27 | 0.29 | 0.02 (-0.1, 0.14) | 0.75 | 0.96 |
|  | Combined EASQ Year 2 | 342 | -4.65 | -4.16 | 0.19 | 0.24 | 0.05 (-0.06, 0.16) | 0.42 | 0.96 |
|  | CDI expressive language Z-score Year 2 | 345 | -4.66 | -4.16 | 0.24 | 0.22 | -0.03 (-0.13, 0.08) | 0.63 | 0.96 |
|  | CDI comprehension Z-score Year 2 | 342 | -4.66 | -4.16 | -0.09 | -0.12 | -0.03 (-0.15, 0.09) | 0.61 | 0.96 |
| N, 25th Percentile, and 75th Percentile are from the adjusted analyses | | | | | | | | | |