## Supplemental Table 1. Effect measure modification of salivary stress biomarkers and concurrent child development at Year 2 by Family Care Inventory score

| Effect Modifier |  | Outcome | N | Modifier value | Outcome, 75th Percentile v. 25th Percentile of Exposure | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | Adjusted | | | | |
|  |  |  |  |  | Coefficient (95% CI) | P-value | FDR Corrected P-value | Interaction P-value | FDR Corrected Interaction P-value |
| Family Care Inventory at Year 1 | Cortisol Reactivity (ug/dl/min) | EASQ Communication Score | 547 | 5 | 0 (-0.02, 0.03) | 0.87 | 1 |  |  |
|  |  |  |  | 9 | 0.01 (-0.01, 0.04) | 0.36 | 1 | 0.38 | 0.92 |
|  |  | EASQ Gross Motor Score | 540 | 5 | -0.01 (-0.04, 0.03) | 0.73 | 1 |  |  |
|  |  |  |  | 9 | 0.01 (-0.02, 0.04) | 0.48 | 1 | 0.51 | 0.92 |
|  |  | EASQ Personal Social Score | 546 | 5 | 0.06 (-0.2, 0.32) | 0.66 | 1 |  |  |
|  |  |  |  | 9 | 0.08 (-0.18, 0.33) | 0.57 | 1 | 0.35 | 0.92 |
|  |  | Combined EASQ | 545 | 5 | -0.01 (-0.04, 0.02) | 0.59 | 1 |  |  |
|  |  |  |  | 9 | 0.01 (-0.02, 0.04) | 0.47 | 1 | 0.27 | 0.92 |
|  |  | CDI expressive language Z-score | 554 | 5 | 0.04 (-0.2, 0.27) | 0.77 | 1 |  |  |
|  |  |  |  | 9 | 0.05 (-0.18, 0.27) | 0.7 | 1 | 0.45 | 0.92 |
|  |  | CDI comprehension Z-score | 549 | 5 | 0 (-0.1, 0.1) | 0.99 | 1 |  |  |
|  |  |  |  | 9 | 0 (-0.1, 0.1) | 0.98 | 1 | 0.31 | 0.92 |
|  |  |  |  |  |  |  |  |  |  |
|  | Pre-stressor Cortisol (ug/dl) | EASQ Communication Score | 590 | 5 | 0.13 (-0.7, 0.95) | 0.77 | 1 |  |  |
|  |  |  |  | 9 | 0.14 (-0.69, 0.96) | 0.76 | 1 | 0.21 | 0.92 |
|  |  | EASQ Gross Motor Score | 584 | 5 | -0.11 (-0.45, 0.22) | 0.51 | 1 |  |  |
|  |  |  |  | 9 | -0.09 (-0.42, 0.24) | 0.61 | 1 | 0.81 | 0.92 |
|  |  | EASQ Personal Social Score | 590 | 5 | 0.39 (-0.39, 1.17) | 0.34 | 1 |  |  |
|  |  |  |  | 9 | 0.4 (-0.38, 1.19) | 0.32 | 1 | 0.87 | 0.92 |
|  |  | Combined EASQ | 589 | 5 | 0.23 (-0.43, 0.89) | 0.51 | 1 |  |  |
|  |  |  |  | 9 | 0.26 (-0.41, 0.93) | 0.45 | 1 | 0.66 | 0.92 |
|  |  | CDI expressive language Z-score | 597 | 5 | -0.05 (-0.13, 0.03) | 0.23 | 1 |  |  |
|  |  |  |  | 9 | -0.01 (-0.09, 0.07) | 0.74 | 1 | 0.43 | 0.92 |
|  |  | CDI comprehension Z-score | 593 | 5 | -0.05 (-0.13, 0.03) | 0.24 | 1 |  |  |
|  |  |  |  | 9 | -0.01 (-0.09, 0.07) | 0.77 | 1 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |
|  | Post-stressor Cortisol (ug/dl) | EASQ Communication Score | 552 | 5 | 0 (-0.01, 0.02) | 0.66 | 1 |  |  |
|  |  |  |  | 9 | 0 (-0.01, 0.02) | 0.62 | 1 | 0.68 | 0.92 |
|  |  | EASQ Gross Motor Score | 545 | 5 | 0 (-0.01, 0) | 0.19 | 1 |  |  |
|  |  |  |  | 9 | 0 (0, 0) | 0.84 | 1 | 0.16 | 0.92 |
|  |  | EASQ Personal Social Score | 551 | 5 | 0 (0, 0) | 0.42 | 1 |  |  |
|  |  |  |  | 9 | 0 (0, 0) | 0.98 | 1 | 0.45 | 0.92 |
|  |  | Combined EASQ | 550 | 5 | 0 (-0.02, 0.02) | 0.84 | 1 |  |  |
|  |  |  |  | 9 | 0 (-0.01, 0.02) | 0.72 | 1 | 0.11 | 0.92 |
|  |  | CDI expressive language Z-score | 559 | 5 | 0 (0, 0) | 0.2 | 1 |  |  |
|  |  |  |  | 9 | 0 (0, 0) | 0.54 | 1 | 0.61 | 0.92 |
|  |  | CDI comprehension Z-score | 554 | 5 | 0 (-0.01, 0) | 0.08 | 1 |  |  |
|  |  |  |  | 9 | 0 (0, 0) | 0.2 | 1 | 0.82 | 0.92 |
|  |  |  |  |  |  |  |  |  |  |
|  | sAA Reactivity (U/ml/min) | EASQ Communication Score | 563 | 5 | -0.5 (-2.25, 1.26) | 0.59 | 1 |  |  |
|  |  |  |  | 9 | 0.02 (-1.6, 1.65) | 0.98 | 1 | 0.19 | 0.92 |
|  |  | EASQ Gross Motor Score | 557 | 5 | -0.24 (-1.23, 0.75) | 0.65 | 1 |  |  |
|  |  |  |  | 9 | 0.62 (-0.33, 1.56) | 0.2 | 1 | 0.65 | 0.92 |
|  |  | EASQ Personal Social Score | 562 | 5 | -1.25 (-3.22, 0.72) | 0.22 | 1 |  |  |
|  |  |  |  | 9 | -0.44 (-2.25, 1.37) | 0.65 | 1 | 0.37 | 0.92 |
|  |  | Combined EASQ | 561 | 5 | -0.87 (-2.71, 0.97) | 0.36 | 1 |  |  |
|  |  |  |  | 9 | -0.19 (-1.88, 1.5) | 0.84 | 1 | 0.12 | 0.92 |
|  |  | CDI expressive language Z-score | 570 | 5 | -0.12 (-0.78, 0.53) | 0.73 | 1 |  |  |
|  |  |  |  | 9 | 0.61 (-0.06, 1.27) | 0.07 | 1 | 0.03 | 0.71 |
|  |  | CDI comprehension Z-score | 566 | 5 | -0.14 (-0.79, 0.5) | 0.67 | 1 |  |  |
|  |  |  |  | 9 | 0.75 (0.09, 1.41) | 0.03 | 1 | 0.02 | 0.71 |
|  |  |  |  |  |  |  |  |  |  |
|  | Pre-stressor sAA (U/ml) | EASQ Communication Score | 586 | 5 | 0 (-0.02, 0.02) | 0.92 | 1 |  |  |
|  |  |  |  | 9 | 0 (-0.02, 0.02) | 0.79 | 1 | 0.25 | 0.92 |
|  |  | EASQ Gross Motor Score | 580 | 5 | 0 (-0.01, 0.01) | 0.42 | 1 |  |  |
|  |  |  |  | 9 | 0 (-0.01, 0) | 0.31 | 1 | 0.26 | 0.92 |
|  |  | EASQ Personal Social Score | 586 | 5 | -0.01 (-0.02, 0.01) | 0.37 | 1 |  |  |
|  |  |  |  | 9 | -0.01 (-0.02, 0.01) | 0.27 | 1 | 0.07 | 0.92 |
|  |  | Combined EASQ | 585 | 5 | -0.01 (-0.02, 0) | 0.06 | 1 |  |  |
|  |  |  |  | 9 | -0.01 (-0.03, 0) | 0.05 | 1 | 0.24 | 0.92 |
|  |  | CDI expressive language Z-score | 593 | 5 | 0.01 (-0.01, 0.03) | 0.36 | 1 |  |  |
|  |  |  |  | 9 | 0.01 (-0.02, 0.03) | 0.58 | 1 | 0.04 | 0.75 |
|  |  | CDI comprehension Z-score | 589 | 5 | 0 (0, 0) | 0.9 | 1 |  |  |
|  |  |  |  | 9 | 0 (0, 0) | 0.1 | 1 | 0.13 | 0.92 |
|  |  |  |  |  |  |  |  |  |  |
|  | Post-stressor sAA (U/ml) | EASQ Communication Score | 573 | 5 | -0.02 (-0.1, 0.07) | 0.72 | 1 |  |  |
|  |  |  |  | 9 | 0.01 (-0.07, 0.08) | 0.87 | 1 | 0.53 | 0.92 |
|  |  | EASQ Gross Motor Score | 567 | 5 | -0.04 (-0.13, 0.05) | 0.35 | 1 |  |  |
|  |  |  |  | 9 | 0.02 (-0.07, 0.1) | 0.75 | 1 | 0.3 | 0.92 |
|  |  | EASQ Personal Social Score | 572 | 5 | 0 (-0.09, 0.09) | 0.98 | 1 |  |  |
|  |  |  |  | 9 | 0.03 (-0.06, 0.12) | 0.49 | 1 | 0.45 | 0.92 |
|  |  | Combined EASQ | 571 | 5 | -0.01 (-0.09, 0.08) | 0.88 | 1 |  |  |
|  |  |  |  | 9 | 0.01 (-0.08, 0.09) | 0.85 | 1 | 0.75 | 0.92 |
|  |  | CDI expressive language Z-score | 580 | 5 | 0.03 (-0.05, 0.11) | 0.51 | 1 |  |  |
|  |  |  |  | 9 | 0.02 (-0.07, 0.1) | 0.73 | 1 | 0.78 | 0.92 |
|  |  | CDI comprehension Z-score | 576 | 5 | 0.03 (-0.05, 0.12) | 0.43 | 1 |  |  |
|  |  |  |  | 9 | 0.03 (-0.06, 0.11) | 0.56 | 1 | 0.78 | 0.92 |
|  |  |  |  |  |  |  |  |  |  |
| Family Care Inventory at Year 2 | Cortisol Reactivity (ug/dl/min) | EASQ Communication Score | 547 | 6 | 0.01 (-0.02, 0.03) | 0.56 | 1 |  |  |
|  |  |  |  | 11 | 0 (-0.02, 0.03) | 0.84 | 1 | 0.68 | 0.92 |
|  |  | EASQ Gross Motor Score | 540 | 6 | 0.01 (-0.04, 0.06) | 0.69 | 1 |  |  |
|  |  |  |  | 11 | 0.01 (-0.04, 0.06) | 0.82 | 1 | 0.66 | 0.92 |
|  |  | EASQ Personal Social Score | 546 | 6 | 0.14 (-0.11, 0.39) | 0.27 | 1 |  |  |
|  |  |  |  | 11 | 0.14 (-0.11, 0.39) | 0.27 | 1 | 0.86 | 0.92 |
|  |  | Combined EASQ | 545 | 6 | 0 (-0.03, 0.03) | 0.94 | 1 |  |  |
|  |  |  |  | 11 | 0 (-0.03, 0.02) | 0.78 | 1 | 0.72 | 0.92 |
|  |  | CDI expressive language Z-score | 554 | 6 | 0.12 (-0.1, 0.34) | 0.28 | 1 |  |  |
|  |  |  |  | 11 | 0.12 (-0.1, 0.33) | 0.31 | 1 | 0.89 | 0.92 |
|  |  | CDI comprehension Z-score | 549 | 6 | -0.01 (-0.05, 0.04) | 0.83 | 1 |  |  |
|  |  |  |  | 11 | -0.01 (-0.06, 0.03) | 0.67 | 1 | 0.3 | 0.92 |
|  |  |  |  |  |  |  |  |  |  |
|  | Pre-stressor Cortisol (ug/dl) | EASQ Communication Score | 590 | 6 | 0.05 (-0.76, 0.86) | 0.91 | 1 |  |  |
|  |  |  |  | 11 | 0.08 (-0.73, 0.88) | 0.86 | 1 | 0.55 | 0.92 |
|  |  | EASQ Gross Motor Score | 584 | 6 | -0.12 (-0.48, 0.24) | 0.53 | 1 |  |  |
|  |  |  |  | 11 | -0.09 (-0.44, 0.27) | 0.65 | 1 | 0.78 | 0.92 |
|  |  | EASQ Personal Social Score | 590 | 6 | 0.33 (-0.48, 1.14) | 0.43 | 1 |  |  |
|  |  |  |  | 11 | 0.32 (-0.47, 1.12) | 0.44 | 1 | 0.8 | 0.92 |
|  |  | Combined EASQ | 589 | 6 | 0.12 (-0.6, 0.84) | 0.76 | 1 |  |  |
|  |  |  |  | 11 | 0.14 (-0.57, 0.85) | 0.71 | 1 | 0.7 | 0.92 |
|  |  | CDI expressive language Z-score | 597 | 6 | -0.01 (-0.1, 0.07) | 0.77 | 1 |  |  |
|  |  |  |  | 11 | -0.01 (-0.08, 0.07) | 0.9 | 1 | 0.92 | 0.92 |
|  |  | CDI comprehension Z-score | 593 | 6 | 0.08 (-0.58, 0.74) | 0.83 | 1 |  |  |
|  |  |  |  | 11 | 0.08 (-0.57, 0.73) | 0.81 | 1 | 0.86 | 0.92 |
|  |  |  |  |  |  |  |  |  |  |
|  | Post-stressor Cortisol (ug/dl) | EASQ Communication Score | 552 | 6 | 0 (-0.01, 0.01) | 0.9 | 1 |  |  |
|  |  |  |  | 11 | 0 (-0.01, 0.01) | 0.85 | 1 | 0.7 | 0.92 |
|  |  | EASQ Gross Motor Score | 545 | 6 | 0 (0, 0) | 0.42 | 1 |  |  |
|  |  |  |  | 11 | 0 (0, 0) | 0.99 | 1 | 0.41 | 0.92 |
|  |  | EASQ Personal Social Score | 551 | 6 | 0 (0, 0) | 0.52 | 1 |  |  |
|  |  |  |  | 11 | 0 (0, 0) | 0.83 | 1 | 0.47 | 0.92 |
|  |  | Combined EASQ | 550 | 6 | 0 (-0.01, 0.01) | 0.72 | 1 |  |  |
|  |  |  |  | 11 | 0 (-0.01, 0.01) | 0.98 | 1 | 0.19 | 0.92 |
|  |  | CDI expressive language Z-score | 559 | 6 | 0 (0, 0) | 0.28 | 1 |  |  |
|  |  |  |  | 11 | 0 (0, 0) | 0.71 | 1 | 0.52 | 0.92 |
|  |  | CDI comprehension Z-score | 554 | 6 | 0 (-0.01, 0) | 0.26 | 1 |  |  |
|  |  |  |  | 11 | 0 (-0.01, 0) | 0.57 | 1 | 0.56 | 0.92 |
|  |  |  |  |  |  |  |  |  |  |
|  | sAA Reactivity (U/ml/min) | EASQ Communication Score | 563 | 6 | -0.12 (-1.72, 1.48) | 0.89 | 1 |  |  |
|  |  |  |  | 11 | -0.13 (-1.81, 1.56) | 0.89 | 1 | 0.82 | 0.92 |
|  |  | EASQ Gross Motor Score | 557 | 6 | 0.39 (-0.33, 1.1) | 0.3 | 1 |  |  |
|  |  |  |  | 10 | 0.24 (-0.36, 0.83) | 0.45 | 1 | 0.75 | 0.92 |
|  |  | EASQ Personal Social Score | 562 | 6 | -0.58 (-2.38, 1.23) | 0.54 | 1 |  |  |
|  |  |  |  | 10.75 | -0.51 (-2.41, 1.39) | 0.61 | 1 | 0.64 | 0.92 |
|  |  | Combined EASQ | 561 | 6 | -0.41 (-2.1, 1.28) | 0.65 | 1 |  |  |
|  |  |  |  | 11 | -0.53 (-2.31, 1.26) | 0.58 | 1 | 0.57 | 0.92 |
|  |  | CDI expressive language Z-score | 570 | 6 | -0.53 (-2.18, 1.12) | 0.54 | 1 |  |  |
|  |  |  |  | 10 | -0.42 (-2.12, 1.28) | 0.64 | 1 | 0.58 | 0.92 |
|  |  | CDI comprehension Z-score | 566 | 6 | 0.04 (-0.62, 0.7) | 0.92 | 1 |  |  |
|  |  |  |  | 10 | 0.37 (-0.18, 0.92) | 0.19 | 1 | 0.17 | 0.92 |
|  |  |  |  |  |  |  |  |  |  |
|  | Pre-stressor sAA (U/ml) | EASQ Communication Score | 586 | 6 | 0 (-0.01, 0) | 0.21 | 1 |  |  |
|  |  |  |  | 11 | 0 (-0.01, 0) | 0.3 | 1 | 0.8 | 0.92 |
|  |  | EASQ Gross Motor Score | 580 | 6 | 0 (-0.01, 0) | 0.4 | 1 |  |  |
|  |  |  |  | 11 | 0 (-0.01, 0) | 0.32 | 1 | 0.45 | 0.92 |
|  |  | EASQ Personal Social Score | 586 | 6 | 0 (-0.02, 0.01) | 0.38 | 1 |  |  |
|  |  |  |  | 11 | 0 (-0.02, 0.01) | 0.47 | 1 | 0.27 | 0.92 |
|  |  | Combined EASQ | 585 | 6 | -0.02 (-0.03, 0) | 0.04 | 1 |  |  |
|  |  |  |  | 11 | -0.02 (-0.03, 0) | 0.04 | 1 | 0.9 | 0.92 |
|  |  | CDI expressive language Z-score | 593 | 6 | 0.01 (-0.02, 0.04) | 0.46 | 1 |  |  |
|  |  |  |  | 11 | 0.01 (-0.01, 0.04) | 0.4 | 1 | 0.4 | 0.92 |
|  |  | CDI comprehension Z-score | 589 | 6 | 0 (0, 0) | 0.96 | 1 |  |  |
|  |  |  |  | 11 | 0 (0, 0) | 0.72 | 1 | 0.25 | 0.92 |
|  |  |  |  |  |  |  |  |  |  |
|  | Post-stressor sAA (U/ml) | EASQ Communication Score | 573 | 6 | 0 (-0.07, 0.08) | 0.92 | 1 |  |  |
|  |  |  |  | 11 | 0 (-0.08, 0.08) | 0.93 | 1 | 0.89 | 0.92 |
|  |  | EASQ Gross Motor Score | 567 | 6 | -0.01 (-0.09, 0.08) | 0.85 | 1 |  |  |
|  |  |  |  | 11 | -0.02 (-0.11, 0.07) | 0.69 | 1 | 0.9 | 0.92 |
|  |  | EASQ Personal Social Score | 572 | 6 | 0.01 (-0.08, 0.1) | 0.84 | 1 |  |  |
|  |  |  |  | 11 | 0.02 (-0.07, 0.12) | 0.66 | 1 | 0.58 | 0.92 |
|  |  | Combined EASQ | 571 | 6 | 0.01 (-0.07, 0.09) | 0.8 | 1 |  |  |
|  |  |  |  | 11 | 0 (-0.09, 0.09) | 1 | 1 | 0.67 | 0.92 |
|  |  | CDI expressive language Z-score | 580 | 6 | 0.01 (-0.07, 0.09) | 0.79 | 1 |  |  |
|  |  |  |  | 11 | 0.04 (-0.05, 0.12) | 0.38 | 1 | 0.4 | 0.92 |
|  |  | CDI comprehension Z-score | 576 | 6 | -0.19 (-1.35, 0.96) | 0.76 | 1 |  |  |
|  |  |  |  | 11 | -0.14 (-1.3, 1.01) | 0.82 | 1 | 0.13 | 0.92 |

## Supplemental Table 2. Effect measure modification of glucocortoid receptor methylation and child development at Year 2 by Family Care Inventory score

| Effect Modifier |  | Outcome | N | Modifier value | Outcome, 75th Percentile v. 25th Percentile of Exposure | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | Adjusted | | | | |
|  |  |  |  |  | Coefficient (95% CI) | P-value | FDR Corrected P-value | Interaction P-value | FDR Corrected Interaction P-value |
| Family Care Inventory at Year 1 | Mean Overall Percentage Glucocorticoid Receptor Methylation | EASQ Communication Score | 559 | 5 | -0.02 (-0.08, 0.03) | 0.4 | 0.87 |  |  |
|  |  |  |  | 9 | -0.01 (-0.06, 0.04) | 0.79 | 0.96 | 0.67 | 0.8 |
|  |  | EASQ Gross Motor Score | 553 | 5 | 0.01 (-0.05, 0.08) | 0.66 | 0.95 |  |  |
|  |  |  |  | 9 | 0 (-0.06, 0.05) | 0.88 | 0.96 | 0.48 | 0.73 |
|  |  | EASQ Personal Social Score | 559 | 5 | -0.04 (-0.1, 0.02) | 0.21 | 0.72 |  |  |
|  |  |  |  | 9 | -0.05 (-0.11, 0) | 0.06 | 0.52 | 0.64 | 0.8 |
|  |  | Combined EASQ | 558 | 5 | 0.03 (-0.48, 0.54) | 0.92 | 0.96 |  |  |
|  |  |  |  | 9 | 0.01 (-0.5, 0.52) | 0.97 | 0.97 | 0.48 | 0.73 |
|  |  | CDI expressive language Z-score | 565 | 5 | -0.06 (-0.12, -0.01) | 0.03 | 0.52 |  |  |
|  |  |  |  | 9 | -0.05 (-0.1, 0.01) | 0.08 | 0.52 | 0.76 | 0.86 |
|  |  | CDI comprehension Z-score | 561 | 5 | -0.05 (-0.14, 0.04) | 0.26 | 0.78 |  |  |
|  |  |  |  | 9 | -0.05 (-0.14, 0.04) | 0.25 | 0.78 | 0.85 | 0.86 |
|  |  |  |  |  |  |  |  |  |  |
|  | Percentage methylation at NGFI-A transcription factor binding site (CpG site #12) | EASQ Communication Score | 341 | 5 | -0.07 (-0.2, 0.07) | 0.35 | 0.83 |  |  |
|  |  |  |  | 9 | 0.02 (-0.11, 0.15) | 0.79 | 0.96 | 0.14 | 0.58 |
|  |  | EASQ Gross Motor Score | 335 | 5 | 0.05 (-0.49, 0.59) | 0.87 | 0.96 |  |  |
|  |  |  |  | 9 | 0.08 (-0.55, 0.71) | 0.82 | 0.96 | 0.31 | 0.73 |
|  |  | EASQ Personal Social Score | 341 | 5 | -0.01 (-0.17, 0.15) | 0.93 | 0.96 |  |  |
|  |  |  |  | 9 | 0.02 (-0.13, 0.17) | 0.81 | 0.96 | 0.49 | 0.73 |
|  |  | Combined EASQ | 340 | 5 | -0.01 (-0.16, 0.14) | 0.88 | 0.96 |  |  |
|  |  |  |  | 9 | 0.07 (-0.07, 0.21) | 0.34 | 0.83 | 0.1 | 0.5 |
|  |  | CDI expressive language Z-score | 344 | 5 | -0.76 (-2.31, 0.78) | 0.34 | 0.83 |  |  |
|  |  |  |  | 9 | -0.62 (-2.08, 0.85) | 0.42 | 0.87 | 0.1 | 0.5 |
|  |  | CDI comprehension Z-score | 341 | 5 | -1.39 (-3.15, 0.38) | 0.12 | 0.54 |  |  |
|  |  |  |  | 9 | -1.33 (-3.01, 0.35) | 0.12 | 0.54 | 0.24 | 0.73 |
|  |  |  |  |  |  |  |  |  |  |
| Family Care Inventory at Year 2 | Mean Overall Percentage Glucocorticoid Receptor Methylation | EASQ Communication Score | 559 | 6 | -0.02 (-0.07, 0.03) | 0.51 | 0.91 |  |  |
|  |  |  |  | 11 | -0.02 (-0.08, 0.03) | 0.4 | 0.87 | 0.8 | 0.86 |
|  |  | EASQ Gross Motor Score | 553 | 6 | 0 (-0.05, 0.06) | 0.91 | 0.96 |  |  |
|  |  |  |  | 11 | 0 (-0.06, 0.06) | 0.94 | 0.96 | 0.86 | 0.86 |
|  |  | EASQ Personal Social Score | 559 | 6 | -0.04 (-0.1, 0.02) | 0.19 | 0.71 |  |  |
|  |  |  |  | 11 | -0.07 (-0.13, 0) | 0.04 | 0.52 | 0.42 | 0.73 |
|  |  | Combined EASQ | 558 | 6 | -0.02 (-0.08, 0.03) | 0.48 | 0.91 |  |  |
|  |  |  |  | 11 | -0.04 (-0.1, 0.02) | 0.19 | 0.71 | 0.56 | 0.79 |
|  |  | CDI expressive language Z-score | 565 | 6 | -0.04 (-0.1, 0.01) | 0.1 | 0.52 |  |  |
|  |  |  |  | 11 | -0.07 (-0.13, -0.02) | 0.01 | 0.49 | 0.22 | 0.73 |
|  |  | CDI comprehension Z-score | 561 | 6 | -0.02 (-0.18, 0.14) | 0.8 | 0.96 |  |  |
|  |  |  |  | 11 | -0.04 (-0.2, 0.11) | 0.62 | 0.94 | 0.35 | 0.73 |
|  |  |  |  |  |  |  |  |  |  |
|  | Percentage methylation at NGFI-A transcription factor binding site (CpG site #12) | EASQ Communication Score | 341 | 6 | -0.12 (-0.26, 0.02) | 0.09 | 0.52 |  |  |
|  |  |  |  | 10 | 0.02 (-0.09, 0.14) | 0.71 | 0.96 | 0.01 | 0.08 |
|  |  | EASQ Gross Motor Score | 335 | 6 | 0.29 (-0.53, 1.11) | 0.5 | 0.91 |  |  |
|  |  |  |  | 10 | 0.23 (-0.56, 1.03) | 0.58 | 0.94 | 0.67 | 0.8 |
|  |  | EASQ Personal Social Score | 341 | 6 | -0.04 (-0.21, 0.12) | 0.62 | 0.94 |  |  |
|  |  |  |  | 10 | 0.04 (-0.1, 0.17) | 0.62 | 0.94 | 0.31 | 0.73 |
|  |  | Combined EASQ | 340 | 6 | -0.04 (-0.19, 0.12) | 0.67 | 0.95 |  |  |
|  |  |  |  | 10 | 0.07 (-0.06, 0.21) | 0.28 | 0.78 | 0 | 0 |
|  |  | CDI expressive language Z-score | 344 | 6 | -0.48 (-1.88, 0.92) | 0.51 | 0.91 |  |  |
|  |  |  |  | 10 | -0.39 (-1.74, 0.97) | 0.59 | 0.94 | 0.09 | 0.5 |
|  |  | CDI comprehension Z-score | 341 | 6 | -1.41 (-3.01, 0.18) | 0.08 | 0.52 |  |  |
|  |  |  |  | 10 | -1.36 (-2.9, 0.19) | 0.09 | 0.52 | 0.38 | 0.73 |

## Supplemental Table 3. Effect measure modification of urinary isoprostanes and concurrent child development by Family Care Inventory score

| Effect Modifier |  | Outcome | N | Modifier value | Outcome, 75th Percentile v. 25th Percentile of Exposure | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | Adjusted | | | | |
|  |  |  |  |  | Coefficient (95% CI) | P-value | FDR Corrected P-value | Interaction P-value | FDR Corrected Interaction P-value |
| Family Care Inventory at Year 1 | IPF(2a)-III (ng/mg creatinine) | Sum of 2nd, 4th, 5th, and 6th WHO motor milestones | 573 | 5 | 0.68 (-0.38, 1.73) | 0.21 | 0.81 |  |  |
|  |  |  |  | 9 | 0.75 (-0.34, 1.84) | 0.18 | 0.81 | 0.25 | 0.57 |
|  |  | CDI expressive language Z-score | 674 | 5 | -0.32 (-0.87, 0.24) | 0.27 | 0.81 |  |  |
|  |  |  |  | 9 | -0.4 (-0.98, 0.17) | 0.17 | 0.81 | 0.05 | 0.54 |
|  |  | CDI comprehension Z-score | 578 | 5 | 0.06 (-0.1, 0.22) | 0.5 | 0.92 |  |  |
|  |  |  |  | 9 | -0.02 (-0.19, 0.14) | 0.79 | 0.94 | 0.1 | 0.55 |
|  |  |  |  |  |  |  |  |  |  |
|  | 2,3-dinor-iPF(2a)-III (ng/mg creatinine) | Sum of 2nd, 4th, 5th, and 6th WHO motor milestones | 573 | 5 | -0.07 (-0.29, 0.15) | 0.54 | 0.92 |  |  |
|  |  |  |  | 9 | -0.05 (-0.27, 0.16) | 0.64 | 0.92 | 0.24 | 0.57 |
|  |  | CDI expressive language Z-score | 674 | 5 | -0.01 (-0.04, 0.01) | 0.43 | 0.88 |  |  |
|  |  |  |  | 9 | 0.01 (-0.01, 0.04) | 0.31 | 0.83 | 0.07 | 0.54 |
|  |  | CDI comprehension Z-score | 578 | 5 | 0 (-0.03, 0.03) | 0.9 | 0.96 |  |  |
|  |  |  |  | 9 | 0 (-0.04, 0.03) | 0.76 | 0.94 | 0.86 | 0.94 |
|  |  |  |  |  |  |  |  |  |  |
|  | iPF(2a)-VI (ng/mg creatinine) | Sum of 2nd, 4th, 5th, and 6th WHO motor milestones | 573 | 5 | -0.58 (-1.42, 0.26) | 0.18 | 0.81 |  |  |
|  |  |  |  | 9 | -0.38 (-1.2, 0.43) | 0.36 | 0.86 | 0.1 | 0.55 |
|  |  | CDI expressive language Z-score | 674 | 5 | -1.23 (-2.53, 0.07) | 0.06 | 0.74 |  |  |
|  |  |  |  | 9 | -1.2 (-2.48, 0.07) | 0.06 | 0.74 | 0.64 | 0.82 |
|  |  | CDI comprehension Z-score | 578 | 5 | -0.05 (-0.47, 0.38) | 0.84 | 0.95 |  |  |
|  |  |  |  | 9 | -0.1 (-0.51, 0.32) | 0.67 | 0.94 | 0.61 | 0.82 |
|  |  |  |  |  |  |  |  |  |  |
|  | 8,12-iso-iPF(2a)-VI (ng/mg creatinine) | Sum of 2nd, 4th, 5th, and 6th WHO motor milestones | 573 | 5 | -0.11 (-0.24, 0.02) | 0.11 | 0.81 |  |  |
|  |  |  |  | 9 | -0.08 (-0.21, 0.05) | 0.23 | 0.81 | 0.09 | 0.55 |
|  |  | CDI expressive language Z-score | 674 | 5 | 0.02 (-0.17, 0.21) | 0.86 | 0.95 |  |  |
|  |  |  |  | 9 | 0.03 (-0.16, 0.22) | 0.78 | 0.94 | 0.33 | 0.66 |
|  |  | CDI comprehension Z-score | 578 | 5 | 0.03 (0, 0.05) | 0.04 | 0.74 |  |  |
|  |  |  |  | 9 | 0.02 (-0.01, 0.04) | 0.2 | 0.81 | 0.4 | 0.68 |
|  |  |  |  |  |  |  |  |  |  |
|  | Combined urinary oxidative stress biomarker score | Sum of 2nd, 4th, 5th, and 6th WHO motor milestones | 573 | 5 | -0.05 (-0.14, 0.03) | 0.23 | 0.81 |  |  |
|  |  |  |  | 9 | -0.04 (-0.12, 0.05) | 0.38 | 0.86 | 0.19 | 0.56 |
|  |  | CDI expressive language Z-score | 674 | 5 | 0 (0, 0) | 0.24 | 0.81 |  |  |
|  |  |  |  | 9 | 0 (0, 0) | 0.25 | 0.81 | 0.95 | 0.98 |
|  |  | CDI comprehension Z-score | 578 | 5 | 0 (0, 0) | 0.72 | 0.94 |  |  |
|  |  |  |  | 9 | 0 (0, 0) | 0.62 | 0.92 | 0.2 | 0.56 |

## Supplemental Table 4. Effect measure modification of urinary isoprostanes at Year 1 and subsequent child development at Year 2 by Family Care Inventory score

| Effect Modifier |  | Outcome | N | Modifier value | Outcome, 75th Percentile v. 25th Percentile of Exposure | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | Adjusted | | | | |
|  |  |  |  |  | Coefficient (95% CI) | P-value | FDR Corrected P-value | Interaction P-value | FDR Corrected Interaction P-value |
| Family Care Inventory at Year 1 | IPF(2a)-III (ng/mg creatinine) | EASQ Communication Score | 553 | 5 | -0.01 (-0.1, 0.08) | 0.85 | 0.95 |  |  |
|  |  |  |  | 9 | 0.01 (-0.07, 0.09) | 0.87 | 0.96 | 0.68 | 0.84 |
|  |  | EASQ Gross Motor Score | 548 | 5 | -0.06 (-0.16, 0.04) | 0.22 | 0.81 |  |  |
|  |  |  |  | 9 | -0.1 (-0.18, -0.01) | 0.03 | 0.74 | 0.17 | 0.56 |
|  |  | EASQ Personal Social Score | 553 | 5 | -0.08 (-0.35, 0.19) | 0.58 | 0.92 |  |  |
|  |  |  |  | 9 | -0.08 (-0.37, 0.2) | 0.58 | 0.92 | 0.75 | 0.87 |
|  |  | Combined EASQ Score | 552 | 5 | -0.03 (-0.14, 0.08) | 0.61 | 0.92 |  |  |
|  |  |  |  | 9 | -0.02 (-0.12, 0.08) | 0.68 | 0.94 | 0.57 | 0.78 |
|  |  | CDI expressive language Z-score | 560 | 5 | 0.04 (-0.06, 0.13) | 0.44 | 0.89 |  |  |
|  |  |  |  | 9 | 0.03 (-0.06, 0.11) | 0.55 | 0.92 | 0.97 | 0.98 |
|  |  | CDI comprehension Z-score | 556 | 5 | 0.06 (-0.04, 0.15) | 0.24 | 0.81 |  |  |
|  |  |  |  | 9 | 0.03 (-0.06, 0.11) | 0.52 | 0.92 | 0.71 | 0.85 |
|  |  |  |  |  |  |  |  |  |  |
|  | 2,3-dinor-iPF(2a)-III (ng/mg creatinine) | EASQ Communication Score | 553 | 5 | -0.02 (-0.06, 0.01) | 0.23 | 0.81 |  |  |
|  |  |  |  | 9 | -0.01 (-0.04, 0.03) | 0.74 | 0.94 | 0.2 | 0.56 |
|  |  | EASQ Gross Motor Score | 548 | 5 | 0.11 (-0.15, 0.36) | 0.42 | 0.87 |  |  |
|  |  |  |  | 9 | 0.11 (-0.14, 0.37) | 0.39 | 0.86 | 0.24 | 0.57 |
|  |  | EASQ Personal Social Score | 553 | 5 | 0.06 (-0.18, 0.31) | 0.63 | 0.92 |  |  |
|  |  |  |  | 9 | 0.07 (-0.18, 0.31) | 0.59 | 0.92 | 0.24 | 0.57 |
|  |  | Combined EASQ Score | 552 | 5 | 0.07 (-0.17, 0.3) | 0.59 | 0.92 |  |  |
|  |  |  |  | 9 | 0.08 (-0.16, 0.31) | 0.54 | 0.92 | 0.39 | 0.68 |
|  |  | CDI expressive language Z-score | 560 | 5 | -0.04 (-0.15, 0.07) | 0.45 | 0.9 |  |  |
|  |  |  |  | 9 | -0.02 (-0.13, 0.09) | 0.78 | 0.94 | 0.04 | 0.54 |
|  |  | CDI comprehension Z-score | 556 | 5 | -0.03 (-0.09, 0.02) | 0.24 | 0.81 |  |  |
|  |  |  |  | 9 | 0 (-0.06, 0.05) | 0.95 | 0.99 | 0.26 | 0.57 |
|  |  |  |  |  |  |  |  |  |  |
|  | iPF(2a)-VI (ng/mg creatinine) | EASQ Communication Score | 553 | 5 | -0.2 (-0.4, 0.01) | 0.06 | 0.74 |  |  |
|  |  |  |  | 9 | -0.25 (-0.44, -0.05) | 0.01 | 0.53 | 0.56 | 0.78 |
|  |  | EASQ Gross Motor Score | 548 | 5 | -0.04 (-0.28, 0.2) | 0.75 | 0.94 |  |  |
|  |  |  |  | 9 | -0.19 (-0.41, 0.03) | 0.09 | 0.81 | 0.15 | 0.56 |
|  |  | EASQ Personal Social Score | 553 | 5 | -0.3 (-0.54, -0.06) | 0.01 | 0.53 |  |  |
|  |  |  |  | 9 | -0.25 (-0.48, -0.03) | 0.03 | 0.72 | 0.79 | 0.91 |
|  |  | Combined EASQ Score | 552 | 5 | -0.36 (-1.06, 0.33) | 0.31 | 0.83 |  |  |
|  |  |  |  | 9 | -0.47 (-1.15, 0.2) | 0.17 | 0.81 | 0.52 | 0.77 |
|  |  | CDI expressive language Z-score | 560 | 5 | -0.22 (-0.43, -0.01) | 0.04 | 0.74 |  |  |
|  |  |  |  | 9 | -0.08 (-0.28, 0.12) | 0.44 | 0.89 | 0.14 | 0.56 |
|  |  | CDI comprehension Z-score | 556 | 5 | -0.63 (-1.5, 0.25) | 0.16 | 0.81 |  |  |
|  |  |  |  | 9 | -0.55 (-1.4, 0.3) | 0.2 | 0.81 | 0.37 | 0.68 |
|  |  |  |  |  |  |  |  |  |  |
|  | 8,12-iso-iPF(2a)-VI (ng/mg creatinine) | EASQ Communication Score | 553 | 5 | 0.05 (-0.03, 0.13) | 0.25 | 0.81 |  |  |
|  |  |  |  | 9 | 0.06 (-0.02, 0.14) | 0.17 | 0.81 | 0.48 | 0.76 |
|  |  | EASQ Gross Motor Score | 548 | 5 | -0.01 (-0.03, 0.02) | 0.69 | 0.94 |  |  |
|  |  |  |  | 9 | 0.01 (-0.02, 0.03) | 0.69 | 0.94 | 0.52 | 0.77 |
|  |  | EASQ Personal Social Score | 553 | 5 | -0.01 (-0.05, 0.04) | 0.8 | 0.94 |  |  |
|  |  |  |  | 9 | 0.01 (-0.04, 0.05) | 0.81 | 0.94 | 0.41 | 0.68 |
|  |  | Combined EASQ Score | 552 | 5 | 0.05 (-0.04, 0.14) | 0.29 | 0.82 |  |  |
|  |  |  |  | 9 | 0.05 (-0.04, 0.14) | 0.27 | 0.81 | 0.89 | 0.94 |
|  |  | CDI expressive language Z-score | 560 | 5 | 0.16 (-0.01, 0.33) | 0.06 | 0.74 |  |  |
|  |  |  |  | 9 | 0.19 (0.02, 0.36) | 0.03 | 0.72 | 0.02 | 0.44 |
|  |  | CDI comprehension Z-score | 556 | 5 | 0.1 (-0.06, 0.25) | 0.22 | 0.81 |  |  |
|  |  |  |  | 9 | 0.13 (-0.02, 0.28) | 0.1 | 0.81 | 0.01 | 0.19 |
|  |  |  |  |  |  |  |  |  |  |
|  | Combined urinary oxidative stress biomarker score | EASQ Communication Score | 553 | 5 | -0.01 (-0.02, 0.01) | 0.52 | 0.92 |  |  |
|  |  |  |  | 9 | 0 (-0.02, 0.01) | 0.8 | 0.94 | 0.63 | 0.82 |
|  |  | EASQ Gross Motor Score | 548 | 5 | -0.01 (-0.03, 0.01) | 0.39 | 0.86 |  |  |
|  |  |  |  | 9 | -0.01 (-0.03, 0.01) | 0.19 | 0.81 | 0.66 | 0.82 |
|  |  | EASQ Personal Social Score | 553 | 5 | -0.01 (-0.03, 0.01) | 0.23 | 0.81 |  |  |
|  |  |  |  | 9 | -0.01 (-0.02, 0.01) | 0.55 | 0.92 | 0.55 | 0.78 |
|  |  | Combined EASQ Score | 552 | 5 | -0.01 (-0.02, 0.01) | 0.39 | 0.86 |  |  |
|  |  |  |  | 9 | -0.01 (-0.02, 0.01) | 0.36 | 0.86 | 0.96 | 0.98 |
|  |  | CDI expressive language Z-score | 560 | 5 | -0.01 (-0.02, 0.01) | 0.51 | 0.92 |  |  |
|  |  |  |  | 9 | 0.01 (-0.01, 0.02) | 0.42 | 0.88 | 0.1 | 0.55 |
|  |  | CDI comprehension Z-score | 556 | 5 | 0 (-0.02, 0.02) | 0.97 | 0.99 |  |  |
|  |  |  |  | 9 | 0.01 (-0.01, 0.02) | 0.23 | 0.81 | 0.14 | 0.56 |
|  |  |  |  |  |  |  |  |  |  |
| Family Care Inventory at Year 2 | IPF(2a)-III (ng/mg creatinine) | EASQ Communication Score | 553 | 6 | -0.03 (-0.12, 0.07) | 0.59 | 0.92 |  |  |
|  |  |  |  | 11 | 0.04 (-0.04, 0.13) | 0.28 | 0.82 | 0.14 | 0.56 |
|  |  | EASQ Gross Motor Score | 548 | 6 | -0.07 (-0.17, 0.04) | 0.22 | 0.81 |  |  |
|  |  |  |  | 11 | -0.07 (-0.16, 0.03) | 0.16 | 0.81 | 0.87 | 0.94 |
|  |  | EASQ Personal Social Score | 553 | 6 | -0.13 (-0.4, 0.15) | 0.38 | 0.86 |  |  |
|  |  |  |  | 11 | -0.09 (-0.35, 0.18) | 0.53 | 0.92 | 0.49 | 0.76 |
|  |  | Combined EASQ Score | 552 | 6 | -0.04 (-0.14, 0.06) | 0.47 | 0.9 |  |  |
|  |  |  |  | 11 | 0.02 (-0.07, 0.1) | 0.75 | 0.94 | 0.16 | 0.56 |
|  |  | CDI expressive language Z-score | 560 | 6 | 0.01 (-0.09, 0.1) | 0.92 | 0.98 |  |  |
|  |  |  |  | 11 | 0.07 (-0.01, 0.15) | 0.1 | 0.81 | 0.17 | 0.56 |
|  |  | CDI comprehension Z-score | 556 | 6 | 0.05 (-0.05, 0.15) | 0.32 | 0.84 |  |  |
|  |  |  |  | 11 | 0.06 (-0.03, 0.14) | 0.19 | 0.81 | 0.7 | 0.85 |
|  |  |  |  |  |  |  |  |  |  |
|  | 2,3-dinor-iPF(2a)-III (ng/mg creatinine) | EASQ Communication Score | 553 | 6 | -0.02 (-0.06, 0.02) | 0.25 | 0.81 |  |  |
|  |  |  |  | 11 | 0 (-0.04, 0.03) | 0.83 | 0.95 | 0.28 | 0.59 |
|  |  | EASQ Gross Motor Score | 548 | 6 | 0.09 (-0.16, 0.34) | 0.48 | 0.91 |  |  |
|  |  |  |  | 11 | 0.14 (-0.11, 0.4) | 0.28 | 0.82 | 0 | 0.07 |
|  |  | EASQ Personal Social Score | 553 | 6 | -0.03 (-0.14, 0.08) | 0.57 | 0.92 |  |  |
|  |  |  |  | 11 | -0.04 (-0.15, 0.07) | 0.48 | 0.91 | 0.99 | 0.99 |
|  |  | Combined EASQ Score | 552 | 6 | -0.04 (-0.12, 0.04) | 0.37 | 0.86 |  |  |
|  |  |  |  | 11 | -0.02 (-0.1, 0.07) | 0.69 | 0.94 | 0.2 | 0.56 |
|  |  | CDI expressive language Z-score | 560 | 6 | -0.03 (-0.15, 0.08) | 0.58 | 0.92 |  |  |
|  |  |  |  | 11 | -0.02 (-0.13, 0.09) | 0.75 | 0.94 | 0.35 | 0.68 |
|  |  | CDI comprehension Z-score | 556 | 6 | -0.03 (-0.1, 0.04) | 0.4 | 0.86 |  |  |
|  |  |  |  | 11 | -0.02 (-0.09, 0.05) | 0.65 | 0.93 | 0.56 | 0.78 |
|  |  |  |  |  |  |  |  |  |  |
|  | iPF(2a)-VI (ng/mg creatinine) | EASQ Communication Score | 553 | 6 | -0.29 (-0.48, -0.09) | 0 | 0.44 |  |  |
|  |  |  |  | 11 | -0.11 (-0.3, 0.09) | 0.3 | 0.82 | 0.06 | 0.54 |
|  |  | EASQ Gross Motor Score | 548 | 6 | -0.17 (-0.4, 0.05) | 0.13 | 0.81 |  |  |
|  |  |  |  | 11 | -0.02 (-0.25, 0.2) | 0.85 | 0.95 | 0.23 | 0.57 |
|  |  | EASQ Personal Social Score | 553 | 6 | -0.29 (-0.52, -0.06) | 0.01 | 0.53 |  |  |
|  |  |  |  | 11 | -0.22 (-0.45, 0.01) | 0.07 | 0.74 | 0.52 | 0.77 |
|  |  | Combined EASQ Score | 552 | 6 | -0.31 (-0.52, -0.09) | 0 | 0.44 |  |  |
|  |  |  |  | 11 | -0.16 (-0.37, 0.06) | 0.16 | 0.81 | 0.18 | 0.56 |
|  |  | CDI expressive language Z-score | 560 | 6 | -0.2 (-0.4, 0) | 0.05 | 0.74 |  |  |
|  |  |  |  | 11 | -0.02 (-0.22, 0.18) | 0.82 | 0.95 | 0.07 | 0.54 |
|  |  | CDI comprehension Z-score | 556 | 6 | -0.1 (-0.3, 0.11) | 0.37 | 0.86 |  |  |
|  |  |  |  | 11 | -0.01 (-0.21, 0.2) | 0.96 | 0.99 | 0.33 | 0.66 |
|  |  |  |  |  |  |  |  |  |  |
|  | 8,12-iso-iPF(2a)-VI (ng/mg creatinine) | EASQ Communication Score | 553 | 6 | 0.03 (-0.03, 0.1) | 0.32 | 0.84 |  |  |
|  |  |  |  | 11 | 0.04 (-0.03, 0.1) | 0.3 | 0.82 | 0.89 | 0.94 |
|  |  | EASQ Gross Motor Score | 548 | 6 | 0 (-0.03, 0.02) | 0.81 | 0.94 |  |  |
|  |  |  |  | 11 | 0.01 (-0.02, 0.04) | 0.47 | 0.9 | 0.39 | 0.68 |
|  |  | EASQ Personal Social Score | 553 | 6 | 0 (-0.03, 0.03) | 0.87 | 0.96 |  |  |
|  |  |  |  | 11 | 0 (-0.03, 0.03) | 0.89 | 0.96 | 0.88 | 0.94 |
|  |  | Combined EASQ Score | 552 | 6 | 0.03 (-0.04, 0.09) | 0.47 | 0.9 |  |  |
|  |  |  |  | 11 | 0.03 (-0.04, 0.1) | 0.4 | 0.86 | 0.81 | 0.92 |
|  |  | CDI expressive language Z-score | 560 | 6 | 0.01 (-0.04, 0.06) | 0.61 | 0.92 |  |  |
|  |  |  |  | 11 | 0.03 (-0.02, 0.08) | 0.23 | 0.81 | 0 | 0 |
|  |  | CDI comprehension Z-score | 556 | 6 | 0.01 (-0.01, 0.04) | 0.27 | 0.81 |  |  |
|  |  |  |  | 11 | 0.02 (0, 0.04) | 0.1 | 0.81 | 0.42 | 0.68 |
|  |  |  |  |  |  |  |  |  |  |
|  | Combined urinary oxidative stress biomarker score | EASQ Communication Score | 553 | 6 | -0.01 (-0.02, 0.01) | 0.39 | 0.86 |  |  |
|  |  |  |  | 11 | 0 (-0.01, 0.02) | 0.63 | 0.92 | 0.18 | 0.56 |
|  |  | EASQ Gross Motor Score | 548 | 6 | -0.01 (-0.03, 0.01) | 0.19 | 0.81 |  |  |
|  |  |  |  | 11 | 0 (-0.02, 0.01) | 0.75 | 0.94 | 0.31 | 0.65 |
|  |  | EASQ Personal Social Score | 553 | 6 | -0.01 (-0.03, 0.01) | 0.37 | 0.86 |  |  |
|  |  |  |  | 11 | 0 (-0.02, 0.01) | 0.67 | 0.94 | 0.65 | 0.82 |
|  |  | Combined EASQ Score | 552 | 6 | -0.01 (-0.03, 0.01) | 0.24 | 0.81 |  |  |
|  |  |  |  | 11 | 0 (-0.02, 0.02) | 0.99 | 0.99 | 0.23 | 0.57 |
|  |  | CDI expressive language Z-score | 560 | 6 | -0.01 (-0.02, 0.01) | 0.54 | 0.92 |  |  |
|  |  |  |  | 11 | 0.01 (-0.01, 0.02) | 0.22 | 0.81 | 0.06 | 0.54 |
|  |  | CDI comprehension Z-score | 556 | 6 | 0 (-0.01, 0.02) | 0.62 | 0.92 |  |  |
|  |  |  |  | 11 | 0.01 (-0.01, 0.02) | 0.22 | 0.81 | 0.37 | 0.68 |

## Supplemental Table 5. Effect measure modification of mean arterial pressure and heart rate and child development at Year 2 by Family Care Inventory score

| Effect Modifier |  | Outcome | N | Modifier value | Outcome, 75th Percentile v. 25th Percentile of Exposure | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | Adjusted | | | | |
|  |  |  |  |  | Coefficient (95% CI) | P-value | FDR Corrected P-value | Interaction P-value | FDR Corrected Interaction P-value |
| Family Care Inventory at Year 1 | Mean arterial pressure (mmHg) | EASQ Communication Score | 1198 | 5 | -0.06 (-0.16, 0.03) | 0.19 | 0.69 |  |  |
|  |  |  |  | 9 | -0.06 (-0.15, 0.04) | 0.23 | 0.69 | 0.23 | 0.75 |
|  |  | EASQ Gross Motor Score | 1178 | 5 | -0.01 (-0.12, 0.1) | 0.88 | 0.98 |  |  |
|  |  |  |  | 9 | 0 (-0.11, 0.1) | 0.96 | 0.98 | 0.38 | 0.77 |
|  |  | EASQ Personal Social Score | 1196 | 5 | -0.21 (-0.33, -0.09) | 0 | 0.01 |  |  |
|  |  |  |  | 9 | -0.21 (-0.32, -0.09) | 0 | 0.01 | 0.7 | 0.87 |
|  |  | Combined EASQ | 1193 | 5 | -0.07 (-0.17, 0.04) | 0.22 | 0.69 |  |  |
|  |  |  |  | 9 | -0.07 (-0.17, 0.04) | 0.2 | 0.69 | 0.91 | 0.96 |
|  |  | CDI expressive language Z-score | 1211 | 5 | -0.08 (-0.18, 0.03) | 0.18 | 0.69 |  |  |
|  |  |  |  | 9 | -0.07 (-0.17, 0.04) | 0.22 | 0.69 | 0.18 | 0.75 |
|  |  | CDI comprehension Z-score | 1197 | 5 | -0.02 (-0.12, 0.09) | 0.77 | 0.98 |  |  |
|  |  |  |  | 9 | -0.01 (-0.12, 0.09) | 0.85 | 0.98 | 0.29 | 0.77 |
|  |  |  |  |  |  |  |  |  |  |
|  | Mean Resting Heart Rate (bpm) | EASQ Communication Score | 1200 | 5 | -0.01 (-0.03, 0.02) | 0.69 | 0.98 |  |  |
|  |  |  |  | 9 | 0 (-0.03, 0.02) | 0.94 | 0.98 | 0.64 | 0.87 |
|  |  | EASQ Gross Motor Score | 1180 | 5 | -0.01 (-0.02, 0.01) | 0.2 | 0.69 |  |  |
|  |  |  |  | 9 | 0 (-0.01, 0.02) | 0.74 | 0.98 | 0.15 | 0.75 |
|  |  | EASQ Personal Social Score | 1198 | 5 | -0.02 (-0.05, 0.02) | 0.41 | 0.83 |  |  |
|  |  |  |  | 9 | -0.01 (-0.04, 0.03) | 0.78 | 0.98 | 0 | 0 |
|  |  | Combined EASQ | 1195 | 5 | -0.01 (-0.06, 0.04) | 0.71 | 0.98 |  |  |
|  |  |  |  | 9 | 0 (-0.05, 0.05) | 0.92 | 0.98 | 0.24 | 0.75 |
|  |  | CDI expressive language Z-score | 1213 | 5 | -0.06 (-0.11, 0) | 0.05 | 0.43 |  |  |
|  |  |  |  | 9 | -0.01 (-0.07, 0.04) | 0.68 | 0.98 | 0.13 | 0.75 |
|  |  | CDI comprehension Z-score | 1198 | 5 | -0.05 (-0.1, 0) | 0.05 | 0.43 |  |  |
|  |  |  |  | 9 | -0.01 (-0.06, 0.04) | 0.75 | 0.98 | 0.1 | 0.75 |
|  |  |  |  |  |  |  |  |  |  |
| Family Care Inventory at Year 2 | Mean arterial pressure (mmHg) | EASQ Communication Score | 1198 | 6 | -0.04 (-0.13, 0.05) | 0.35 | 0.82 |  |  |
|  |  |  |  | 10 | -0.04 (-0.13, 0.05) | 0.4 | 0.83 | 0.36 | 0.77 |
|  |  | EASQ Gross Motor Score | 1178 | 6 | 0 (-0.1, 0.1) | 0.96 | 0.98 |  |  |
|  |  |  |  | 10 | 0.01 (-0.09, 0.11) | 0.91 | 0.98 | 0.25 | 0.75 |
|  |  | EASQ Personal Social Score | 1196 | 6 | -0.2 (-0.32, -0.09) | 0 | 0.01 |  |  |
|  |  |  |  | 10 | -0.2 (-0.31, -0.09) | 0 | 0.01 | 0.96 | 0.96 |
|  |  | Combined EASQ | 1193 | 6 | -0.06 (-0.16, 0.04) | 0.25 | 0.69 |  |  |
|  |  |  |  | 10 | -0.06 (-0.16, 0.04) | 0.26 | 0.69 | 0.57 | 0.87 |
|  |  | CDI expressive language Z-score | 1211 | 6 | -0.06 (-0.17, 0.04) | 0.24 | 0.69 |  |  |
|  |  |  |  | 10 | -0.06 (-0.16, 0.05) | 0.27 | 0.69 | 0.38 | 0.77 |
|  |  | CDI comprehension Z-score | 1197 | 6 | 0.02 (-0.09, 0.12) | 0.77 | 0.98 |  |  |
|  |  |  |  | 10 | 0.01 (-0.09, 0.11) | 0.81 | 0.98 | 0.72 | 0.87 |
|  |  |  |  |  |  |  |  |  |  |
|  | Mean Resting Heart Rate (bpm) | EASQ Communication Score | 1200 | 6 | -0.01 (-0.04, 0.03) | 0.72 | 0.98 |  |  |
|  |  |  |  | 10 | 0 (-0.03, 0.03) | 0.98 | 0.98 | 0.5 | 0.87 |
|  |  | EASQ Gross Motor Score | 1180 | 6 | 0 (-0.02, 0.01) | 0.7 | 0.98 |  |  |
|  |  |  |  | 10.25 | 0 (-0.02, 0.01) | 0.82 | 0.98 | 0.92 | 0.96 |
|  |  | EASQ Personal Social Score | 1198 | 6 | 0.17 (-0.02, 0.35) | 0.07 | 0.44 |  |  |
|  |  |  |  | 10 | 0.17 (-0.01, 0.36) | 0.06 | 0.43 | 0.67 | 0.87 |
|  |  | Combined EASQ | 1195 | 6 | -0.01 (-0.06, 0.04) | 0.79 | 0.98 |  |  |
|  |  |  |  | 10 | 0 (-0.05, 0.05) | 0.93 | 0.98 | 0.66 | 0.87 |
|  |  | CDI expressive language Z-score | 1213 | 6 | -0.03 (-0.08, 0.03) | 0.37 | 0.82 |  |  |
|  |  |  |  | 10 | -0.02 (-0.07, 0.03) | 0.55 | 0.98 | 0.78 | 0.89 |
|  |  | CDI comprehension Z-score | 1198 | 6 | -0.02 (-0.08, 0.03) | 0.38 | 0.82 |  |  |
|  |  |  |  | 10 | -0.01 (-0.06, 0.04) | 0.75 | 0.98 | 0.54 | 0.87 |