## 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 |
| Analyses adjusted for child age and child sex, and screened the following covariates for potential inclusion (see Appendix 3 for details) -- child birth order, maternal age, maternal height, maternal education, household food insecurity, number of children in the household, number of individuals living in the compound, distance to primary drinking water source, household assets, prior anthropometry, month of assessment, treatment arm, pre-stressor sample collection time, maternal Center for Epidemiologic Studies Depression Scale score, maternal Perceived Stress Scale score, and maternal lifetime cumulative exposure to intimate partner violence. | | | | | | | | | |

## 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 |
| Analyses adjusted for child age and child sex, and screened the following covariates for potential inclusion (see Appendix 3 for details) -- child birth order, maternal age, maternal height, maternal education, household food insecurity, number of children in the household, number of individuals living in the compound, distance to primary drinking water source, household assets, prior anthropometry, month of assessment, treatment arm, pre-stressor sample collection time, maternal Center for Epidemiologic Studies Depression Scale score, maternal Perceived Stress Scale score, and maternal lifetime cumulative exposure to intimate partner violence. | | | | | | | | | |

## 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 |
| Analyses adjusted for child age and child sex, and screened the following covariates for potential inclusion (see Appendix 3 for details) -- child birth order, maternal age, maternal height, maternal education, household food insecurity, number of children in the household, number of individuals living in the compound, distance to primary drinking water source, household assets, prior anthropometry, month of assessment, treatment arm, pre-stressor sample collection time, maternal Center for Epidemiologic Studies Depression Scale score, maternal Perceived Stress Scale score, and maternal lifetime cumulative exposure to intimate partner violence. | | | | | | | | | |

## 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 |
| Analyses adjusted for child age and child sex, and screened the following covariates for potential inclusion (see Appendix 3 for details) -- child birth order, maternal age, maternal height, maternal education, household food insecurity, number of children in the household, number of individuals living in the compound, distance to primary drinking water source, household assets, prior anthropometry, month of assessment, treatment arm, pre-stressor sample collection time, maternal Center for Epidemiologic Studies Depression Scale score, maternal Perceived Stress Scale score, and maternal lifetime cumulative exposure to intimate partner violence. | | | | | | | | | |

## 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 |
| Analyses adjusted for child age and child sex, and screened the following covariates for potential inclusion (see Appendix 3 for details) -- child birth order, maternal age, maternal height, maternal education, household food insecurity, number of children in the household, number of individuals living in the compound, distance to primary drinking water source, household assets, prior anthropometry, month of assessment, treatment arm, pre-stressor sample collection time, maternal Center for Epidemiologic Studies Depression Scale score, maternal Perceived Stress Scale score, and maternal lifetime cumulative exposure to intimate partner violence. | | | | | | | | | |