## Table S1: Association between Exposure to IPV and Child Immune Status

| Maternal Exposure to IPV | Outcome | N | Outcome, 75th Percentile v. 25th Percentile | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | Unadjusted | | | | | Adjusted | | | | |
|  |  |  | Predicted Outcome no Exposure | Predicted Outcome with Exposure | Coefficient (95% CI) | P-value | FDR Corrected P-value | Predicted Outcome no Exposure | Predicted Outcome with Exposure | Coefficient (95% CI) | P-value | FDR Corrected P-value |
| Exposure to IPV during pregnancy | Sum score of inflammation Year 1 | 270 | 0.1 | 0.07 | -0.03 (-0.31, 0.24) | 0.82 | 0.96 | 0.01 | 0.01 | 0.01 (-0.29, 0.3) | 0.97 | 0.97 |
|  | Ln Th1/Th2 Year 1 | 268 | 0.13 | 0.21 | 0.08 (-0.06, 0.23) | 0.25 | 0.66 | -0.08 | -0.01 | 0.07 (-0.07, 0.21) | 0.34 | 0.77 |
|  | Ln Th1/Th17 Year 1 | 262 | 0.35 | 0.49 | 0.14 (-0.01, 0.28) | 0.06 | 0.66 | 0.2 | 0.37 | 0.17 (0.02, 0.32) | 0.03 | 0.51 |
|  | Ln Th1/IL-10 Year 1 | 269 | 1.08 | 1.12 | 0.04 (-0.09, 0.17) | 0.55 | 0.91 | 1.05 | 1.12 | 0.07 (-0.06, 0.21) | 0.31 | 0.74 |
|  | Ln Th2/IL-10 Year 1 | 269 | 0.97 | 0.93 | -0.04 (-0.22, 0.13) | 0.65 | 0.91 | 1.18 | 1.2 | 0.02 (-0.16, 0.2) | 0.8 | 0.89 |
|  | Ln Th17/IL-10 Year 1 | 263 | 0.73 | 0.62 | -0.11 (-0.3, 0.08) | 0.26 | 0.66 | 0.71 | 0.63 | -0.09 (-0.28, 0.11) | 0.4 | 0.78 |
|  | Ln GM-CSF/IL-10 Year 1 | 270 | 1.75 | 1.56 | -0.19 (-0.46, 0.07) | 0.15 | 0.66 | 1.79 | 1.71 | -0.08 (-0.33, 0.17) | 0.53 | 0.8 |
|  | Ln IL-2/IL-10 Year 1 | 265 | -2.59 | -2.81 | -0.23 (-0.59, 0.14) | 0.22 | 0.66 | -2.8 | -2.97 | -0.16 (-0.53, 0.21) | 0.4 | 0.78 |
|  | Ln IFN-y Year 1 | 270 | 2.07 | 2.1 | 0.03 (-0.11, 0.18) | 0.67 | 0.91 | 1.89 | 1.97 | 0.09 (-0.07, 0.24) | 0.29 | 0.74 |
|  | Ln CRP Year 1 | 244 | 0.1 | 0.58 | 0.49 (-0.05, 1.02) | 0.07 | 0.66 | 0.23 | 0.36 | 0.13 (-0.44, 0.71) | 0.66 | 0.88 |
|  | Ln AGP Year 1 | 241 | -0.08 | 0.02 | 0.1 (-0.03, 0.22) | 0.12 | 0.66 | 0.14 | 0.25 | 0.11 (-0.03, 0.24) | 0.12 | 0.73 |
|  | Ln IGF-1 Year 1 | 242 | 3.43 | 3.43 | 0 (-0.19, 0.19) | 1 | 1 | 3.26 | 3.3 | 0.04 (-0.17, 0.24) | 0.75 | 0.88 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Sum score of inflammation Year 2 | 352 | 0.01 | -0.23 | -0.24 (-0.48, 0) | 0.05 | 0.66 | 0.04 | -0.12 | -0.16 (-0.4, 0.08) | 0.2 | 0.74 |
|  | Ln Th1/Th2 Year 2 | 350 | -0.06 | -0.01 | 0.05 (-0.08, 0.18) | 0.43 | 0.9 | -0.03 | 0.1 | 0.13 (-0.01, 0.28) | 0.07 | 0.62 |
|  | Ln Th1/Th17 Year 2 | 347 | 0.51 | 0.49 | -0.03 (-0.14, 0.09) | 0.67 | 0.91 | 0.52 | 0.57 | 0.05 (-0.08, 0.17) | 0.46 | 0.78 |
|  | Ln Th1/IL-10 Year 2 | 348 | 1.45 | 1.48 | 0.03 (-0.11, 0.18) | 0.67 | 0.91 | 1.35 | 1.43 | 0.09 (-0.06, 0.23) | 0.26 | 0.74 |
|  | Ln Th2/IL-10 Year 2 | 347 | 1.49 | 1.45 | -0.04 (-0.2, 0.12) | 0.67 | 0.91 | 1.3 | 1.31 | 0.01 (-0.15, 0.17) | 0.89 | 0.94 |
|  | Ln Th17/IL-10 Year 2 | 343 | 0.93 | 0.98 | 0.05 (-0.11, 0.21) | 0.59 | 0.91 | 0.97 | 1.07 | 0.1 (-0.06, 0.26) | 0.23 | 0.74 |
|  | Ln GM-CSF/IL-10 Year 2 | 348 | 2.37 | 2.39 | 0.02 (-0.23, 0.27) | 0.88 | 0.96 | 2.33 | 2.44 | 0.1 (-0.15, 0.36) | 0.44 | 0.78 |
|  | Ln IL-2/IL-10 Year 2 | 339 | -2.28 | -2.36 | -0.08 (-0.39, 0.23) | 0.63 | 0.91 | -2.36 | -2.42 | -0.06 (-0.41, 0.29) | 0.75 | 0.88 |
|  | Ln IFN-y Year 2 | 352 | 1.96 | 1.85 | -0.11 (-0.27, 0.04) | 0.13 | 0.66 | 1.97 | 1.91 | -0.06 (-0.23, 0.11) | 0.47 | 0.78 |
|  | Ln CRP Year 2 | 737 | -0.14 | -0.25 | -0.11 (-0.35, 0.13) | 0.38 | 0.86 | -0.31 | -0.41 | -0.11 (-0.37, 0.16) | 0.44 | 0.78 |
|  | Ln AGP Year 2 | 457 | -0.19 | -0.22 | -0.03 (-0.14, 0.07) | 0.55 | 0.91 | -0.24 | -0.25 | -0.01 (-0.01, -0.01) | 0 | 0 |
|  | Ln IGF-1 Year 2 | 364 | 3.82 | 3.81 | -0.01 (-0.13, 0.11) | 0.91 | 0.96 | 3.9 | 3.94 | 0.04 (-0.08, 0.16) | 0.53 | 0.8 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Exposure to IPV during first year of child's life | Sum score of inflammation Year 1 | 279 | 0.07 | 0.11 | 0.04 (-0.19, 0.27) | 0.74 | 0.99 | -0.03 | 0.05 | 0.07 (-0.18, 0.33) | 0.59 | 0.99 |
|  | Ln Th1/Th2 Year 1 | 276 | 0.14 | 0.11 | -0.03 (-0.15, 0.09) | 0.67 | 0.99 | -0.07 | -0.06 | 0.01 (-0.11, 0.14) | 0.83 | 0.99 |
|  | Ln Th1/Th17 Year 1 | 270 | 0.38 | 0.37 | -0.01 (-0.13, 0.11) | 0.88 | 0.99 | 0.23 | 0.27 | 0.05 (-0.09, 0.19) | 0.53 | 0.99 |
|  | Ln Th1/IL-10 Year 1 | 278 | 1.1 | 1.12 | 0.02 (-0.09, 0.13) | 0.74 | 0.99 | 1.06 | 1.11 | 0.04 (-0.07, 0.15) | 0.47 | 0.99 |
|  | Ln Th2/IL-10 Year 1 | 277 | 0.99 | 1.05 | 0.06 (-0.09, 0.21) | 0.44 | 0.99 | 1.28 | 1.31 | 0.03 (-0.12, 0.18) | 0.7 | 0.99 |
|  | Ln Th17/IL-10 Year 1 | 271 | 0.71 | 0.72 | 0.01 (-0.14, 0.16) | 0.91 | 0.99 | 0.79 | 0.78 | -0.01 (-0.16, 0.15) | 0.93 | 0.99 |
|  | Ln GM-CSF/IL-10 Year 1 | 279 | 1.81 | 1.84 | 0.04 (-0.18, 0.26) | 0.77 | 0.99 | 2.08 | 2.06 | -0.02 (-0.24, 0.2) | 0.87 | 0.99 |
|  | Ln IL-2/IL-10 Year 1 | 274 | -2.57 | -2.59 | -0.01 (-0.32, 0.29) | 0.93 | 0.99 | -2.73 | -2.74 | -0.01 (-0.33, 0.3) | 0.94 | 0.99 |
|  | Ln IFN-y Year 1 | 279 | 2.06 | 2.05 | -0.02 (-0.14, 0.11) | 0.82 | 0.99 | 1.85 | 1.92 | 0.07 (-0.07, 0.2) | 0.35 | 0.99 |
|  | Ln CRP Year 1 | 254 | 0.17 | 0.44 | 0.27 (-0.14, 0.69) | 0.2 | 0.99 | 0.22 | 0.32 | 0.1 (-0.36, 0.55) | 0.69 | 0.99 |
|  | Ln AGP Year 1 | 250 | -0.07 | -0.06 | 0.01 (-0.09, 0.12) | 0.83 | 0.99 | 0.04 | 0.06 | 0.02 (-0.09, 0.14) | 0.72 | 0.99 |
|  | Ln IGF-1 Year 1 | 251 | 3.42 | 3.42 | 0 (-0.16, 0.16) | 0.99 | 0.99 | 3.28 | 3.29 | 0 (-0.18, 0.18) | 0.99 | 0.99 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Sum score of inflammation Year 2 | 369 | -0.06 | -0.1 | -0.04 (-0.25, 0.17) | 0.72 | 0.91 | -0.03 | -0.07 | -0.04 (-0.24, 0.16) | 0.7 | 0.88 |
|  | Ln Th1/Th2 Year 2 | 367 | -0.04 | -0.16 | -0.13 (-0.24, -0.02) | 0.02 | 0.66 | -0.04 | -0.16 | -0.12 (-0.24, 0.01) | 0.06 | 0.62 |
|  | Ln Th1/Th17 Year 2 | 363 | 0.46 | 0.46 | 0 (-0.1, 0.1) | 0.98 | 1 | 0.47 | 0.5 | 0.03 (-0.07, 0.14) | 0.55 | 0.8 |
|  | Ln Th1/IL-10 Year 2 | 365 | 1.46 | 1.4 | -0.07 (-0.19, 0.05) | 0.28 | 0.66 | 1.36 | 1.28 | -0.07 (-0.2, 0.05) | 0.25 | 0.74 |
|  | Ln Th2/IL-10 Year 2 | 364 | 1.46 | 1.48 | 0.03 (-0.11, 0.16) | 0.7 | 0.91 | 1.24 | 1.27 | 0.03 (-0.1, 0.16) | 0.68 | 0.88 |
|  | Ln Th17/IL-10 Year 2 | 359 | 0.97 | 0.88 | -0.09 (-0.22, 0.04) | 0.17 | 0.66 | 0.94 | 0.86 | -0.08 (-0.21, 0.05) | 0.24 | 0.74 |
|  | Ln GM-CSF/IL-10 Year 2 | 365 | 2.3 | 2.32 | 0.02 (-0.19, 0.23) | 0.85 | 0.96 | 2.33 | 2.36 | 0.04 (-0.18, 0.25) | 0.76 | 0.88 |
|  | Ln IL-2/IL-10 Year 2 | 356 | -2.32 | -2.15 | 0.17 (-0.09, 0.44) | 0.19 | 0.66 | -2.41 | -2.18 | 0.22 (-0.06, 0.51) | 0.12 | 0.73 |
|  | Ln IFN-y Year 2 | 369 | 1.94 | 1.86 | -0.08 (-0.21, 0.05) | 0.23 | 0.66 | 1.93 | 1.82 | -0.11 (-0.25, 0.04) | 0.14 | 0.73 |
|  | Ln CRP Year 2 | 769 | -0.1 | -0.24 | -0.14 (-0.34, 0.07) | 0.2 | 0.66 | -0.3 | -0.42 | -0.12 (-0.34, 0.11) | 0.31 | 0.74 |
|  | Ln AGP Year 2 | 478 | -0.21 | -0.2 | 0.02 (-0.07, 0.11) | 0.73 | 0.91 | -0.2 | -0.19 | 0.01 (-0.09, 0.12) | 0.81 | 0.89 |
|  | Ln IGF-1 Year 2 | 381 | 3.83 | 3.81 | -0.01 (-0.11, 0.09) | 0.83 | 0.96 | 3.91 | 3.91 | 0 (-0.09, 0.1) | 0.95 | 0.97 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cumulative lifetime exposure to IPV | Sum score of inflammation Year 2 | 655 | -0.16 | -0.04 | 0.12 (-0.04, 0.27) | 0.15 | 0.41 | 0.03 | 0.06 | 0.04 (-0.04, 0.12) | 0.38 | 0.75 |
|  | Ln Th1/Th2 Year 2 | 652 | -0.06 | -0.06 | 0 (-0.08, 0.08) | 0.98 | 0.98 | -0.05 | -0.04 | 0.01 (-0.07, 0.1) | 0.78 | 0.94 |
|  | Ln Th1/Th17 Year 2 | 646 | 0.45 | 0.47 | 0.02 (-0.05, 0.1) | 0.55 | 0.73 | 0.27 | 0.32 | 0.06 (-0.02, 0.13) | 0.16 | 0.63 |
|  | Ln Th1/IL-10 Year 2 | 650 | 1.52 | 1.44 | -0.08 (-0.16, 0.01) | 0.07 | 0.29 | 1.39 | 1.37 | -0.02 (-0.06, 0.03) | 0.44 | 0.75 |
|  | Ln Th2/IL-10 Year 2 | 648 | 1.53 | 1.46 | -0.07 (-0.18, 0.03) | 0.17 | 0.41 | 1.36 | 1.33 | -0.03 (-0.14, 0.07) | 0.56 | 0.85 |
|  | Ln Th17/IL-10 Year 2 | 641 | 1.03 | 0.94 | -0.1 (-0.2, 0) | 0.06 | 0.29 | 0.94 | 0.91 | -0.03 (-0.09, 0.02) | 0.22 | 0.67 |
|  | Ln GM-CSF/IL-10 Year 2 | 650 | 2.19 | 2.28 | 0.09 (-0.05, 0.23) | 0.23 | 0.45 | 2.28 | 2.39 | 0.11 (-0.04, 0.26) | 0.14 | 0.63 |
|  | Ln IL-2/IL-10 Year 2 | 641 | -2.22 | -2.28 | -0.06 (-0.26, 0.13) | 0.53 | 0.73 | -2.38 | -2.42 | -0.04 (-0.24, 0.16) | 0.69 | 0.91 |
|  | Ln IFN-y Year 2 | 655 | 1.91 | 1.96 | 0.05 (-0.04, 0.15) | 0.29 | 0.5 | 1.93 | 1.99 | 0.05 (-0.05, 0.16) | 0.33 | 0.75 |
|  | Ln CRP Year 2 | 1333 | -0.09 | -0.11 | -0.02 (-0.17, 0.13) | 0.81 | 0.97 | -0.33 | -0.34 | -0.01 (-0.17, 0.15) | 0.9 | 0.98 |
|  | Ln AGP Year 2 | 806 | -0.21 | -0.21 | 0 (-0.07, 0.07) | 0.93 | 0.98 | -0.18 | -0.18 | 0 (-0.07, 0.08) | 0.99 | 0.99 |
|  | Ln IGF-1 Year 2 | 679 | 3.95 | 3.84 | -0.11 (-0.18, -0.03) | 0 | 0.04 | 3.93 | 3.9 | -0.03 (-0.07, 0) | 0.05 | 0.63 |

N is from the unadjusted analyses

## Table S2: Association between Parental Stress and Child Immune Status

| Parental Stress | 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 |
| Maternal stress score | Sum score of inflammation Year 2 | 657 | 10 | 18 | -0.13 | -0.07 | 0.06 (-0.05, 0.18) | 0.26 | 0.88 | 0.04 | 0.09 | 0.05 (-0.06, 0.17) | 0.36 | 0.96 |
|  | Ln Th1/Th2 Year 2 | 654 | 10 | 18 | -0.05 | -0.08 | -0.03 (-0.09, 0.03) | 0.3 | 0.88 | -0.03 | -0.07 | -0.03 (-0.09, 0.03) | 0.31 | 0.96 |
|  | Ln Th1/Th17 Year 2 | 648 | 10 | 18 | 0.46 | 0.47 | 0.01 (-0.1, 0.11) | 0.92 | 0.99 | 0.32 | 0.34 | 0.03 (-0.08, 0.14) | 0.63 | 0.99 |
|  | Ln Th1/IL-10 Year 2 | 652 | 10 | 18 | 1.48 | 1.46 | -0.03 (-0.09, 0.03) | 0.4 | 0.88 | 1.37 | 1.35 | -0.01 (-0.08, 0.05) | 0.69 | 0.99 |
|  | Ln Th2/IL-10 Year 2 | 650 | 10 | 18 | 1.49 | 1.49 | 0 (-0.08, 0.07) | 0.97 | 0.99 | 1.35 | 1.35 | 0.01 (-0.07, 0.08) | 0.89 | 0.99 |
|  | Ln Th17/IL-10 Year 2 | 643 | 10 | 18 | 0.96 | 0.99 | 0.02 (-0.05, 0.1) | 0.52 | 0.96 | 0.89 | 0.91 | 0.02 (-0.07, 0.1) | 0.69 | 0.99 |
|  | Ln GM-CSF/IL-10 Year 2 | 652 | 10 | 18 | 2.23 | 2.24 | 0.02 (-0.09, 0.12) | 0.78 | 0.99 | 2.33 | 2.33 | 0 (-0.12, 0.12) | 1 | 1 |
|  | Ln IL-2/IL-10 Year 2 | 643 | 10 | 18 | -2.32 | -2.21 | 0.11 (-0.1, 0.31) | 0.32 | 0.88 | -2.39 | -2.41 | -0.02 (-0.16, 0.13) | 0.82 | 0.99 |
|  | Ln IFN-y Year 2 | 657 | 10 | 18 | 1.91 | 1.94 | 0.03 (-0.08, 0.13) | 0.64 | 0.99 | 1.95 | 1.96 | 0 (-0.07, 0.08) | 0.98 | 1 |
|  | Ln CRP Year 2 | 1338 | 10 | 17 | -0.08 | -0.12 | -0.04 (-0.13, 0.05) | 0.4 | 0.88 | -0.32 | -0.33 | -0.01 (-0.19, 0.17) | 0.9 | 0.99 |
|  | Ln AGP Year 2 | 809 | 10 | 18 | -0.21 | -0.2 | 0 (-0.05, 0.05) | 0.93 | 0.99 | -0.19 | -0.18 | 0.01 (-0.04, 0.06) | 0.75 | 0.99 |
|  | Ln IGF-1 Year 2 | 681 | 10 | 18 | 3.9 | 3.88 | -0.02 (-0.07, 0.03) | 0.48 | 0.96 | 3.9 | 3.88 | -0.02 (-0.08, 0.04) | 0.52 | 0.99 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Paternal stress score | Sum score of inflammation Year 2 | 481 | 15 | 22 | -0.04 | 0.06 | 0.09 (-0.02, 0.21) | 0.11 | 0.88 | 0.14 | 0.2 | 0.06 (-0.06, 0.18) | 0.35 | 0.96 |
|  | Ln Th1/Th2 Year 2 | 479 | 15 | 22 | -0.05 | -0.06 | -0.01 (-0.07, 0.05) | 0.74 | 0.99 | -0.01 | -0.03 | -0.03 (-0.08, 0.03) | 0.36 | 0.96 |
|  | Ln Th1/Th17 Year 2 | 477 | 15 | 22 | 0.49 | 0.46 | -0.03 (-0.09, 0.02) | 0.26 | 0.88 | 0.35 | 0.32 | -0.03 (-0.09, 0.02) | 0.23 | 0.96 |
|  | Ln Th1/IL-10 Year 2 | 478 | 15 | 22 | 1.51 | 1.45 | -0.06 (-0.17, 0.04) | 0.24 | 0.88 | 1.39 | 1.4 | 0.01 (-0.06, 0.08) | 0.81 | 0.99 |
|  | Ln Th2/IL-10 Year 2 | 477 | 15 | 22 | 1.51 | 1.5 | -0.01 (-0.1, 0.07) | 0.76 | 0.99 | 1.46 | 1.48 | 0.01 (-0.07, 0.1) | 0.77 | 0.99 |
|  | Ln Th17/IL-10 Year 2 | 474 | 15 | 22 | 0.99 | 0.99 | 0 (-0.09, 0.09) | 0.99 | 0.99 | 0.91 | 0.92 | 0.01 (-0.07, 0.1) | 0.8 | 0.99 |
|  | Ln GM-CSF/IL-10 Year 2 | 478 | 15 | 22 | 2.15 | 2.35 | 0.2 (-0.07, 0.47) | 0.14 | 0.88 | 2.33 | 2.55 | 0.21 (-0.06, 0.48) | 0.12 | 0.96 |
|  | Ln IL-2/IL-10 Year 2 | 470 | 15 | 21.75 | -2.17 | -2.15 | 0.02 (-0.13, 0.17) | 0.8 | 0.99 | -2.49 | -2.46 | 0.03 (-0.11, 0.17) | 0.69 | 0.99 |
|  | Ln IFN-y Year 2 | 481 | 15 | 22 | 1.97 | 1.97 | 0.01 (-0.07, 0.08) | 0.87 | 0.99 | 2.05 | 2.04 | -0.01 (-0.09, 0.07) | 0.82 | 0.99 |
|  | Ln CRP Year 2 | 966 | 15 | 22 | -0.2 | -0.25 | -0.05 (-0.17, 0.06) | 0.36 | 0.88 | -0.17 | -0.23 | -0.06 (-0.18, 0.06) | 0.33 | 0.96 |
|  | Ln AGP Year 2 | 608 | 15 | 22 | -0.28 | -0.24 | 0.04 (-0.01, 0.09) | 0.1 | 0.88 | -0.21 | -0.17 | 0.05 (-0.01, 0.1) | 0.09 | 0.96 |
|  | Ln IGF-1 Year 2 | 497 | 15 | 22 | 3.86 | 3.87 | 0.02 (-0.05, 0.08) | 0.64 | 0.99 | 3.74 | 3.78 | 0.04 (-0.01, 0.09) | 0.11 | 0.96 |
| N, 25th Percentile, and 75th Percentile are from the unadjusted analyses | | | | | | | | | | | | | | |

## Table S3: Association between CES-D Scores at Year 1 and Child Immune Status

| CES-D Year 1 | 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 |
| CES-D Score Year 1 | Sum score of inflammation Year 1 | 593 | 6 | 16 | -0.01 | 0.01 | 0.02 (-0.15, 0.2) | 0.8 | 0.88 | -0.05 | -0.05 | 0 (-0.1, 0.1) | 0.97 | 0.97 |
|  | Ln Th1/Th2 Year 1 | 588 | 6 | 16 | 0.15 | 0.17 | 0.02 (-0.02, 0.07) | 0.35 | 0.65 | -0.02 | -0.01 | 0 (-0.05, 0.06) | 0.93 | 0.97 |
|  | Ln Th1/Th17 Year 1 | 583 | 6 | 16 | 0.36 | 0.47 | 0.11 (0.01, 0.21) | 0.03 | 0.5 | 0.31 | 0.42 | 0.12 (0.01, 0.22) | 0.03 | 0.62 |
|  | Ln Th1/IL-10 Year 1 | 590 | 6 | 16 | 1.11 | 1.1 | -0.01 (-0.06, 0.05) | 0.86 | 0.88 | 1.06 | 1.05 | -0.02 (-0.07, 0.04) | 0.56 | 0.97 |
|  | Ln Th2/IL-10 Year 1 | 588 | 6 | 16 | 0.93 | 0.89 | -0.04 (-0.1, 0.03) | 0.28 | 0.65 | 0.96 | 0.94 | -0.02 (-0.18, 0.13) | 0.76 | 0.97 |
|  | Ln Th17/IL-10 Year 1 | 582 | 6 | 16 | 0.75 | 0.64 | -0.11 (-0.26, 0.04) | 0.16 | 0.65 | 0.67 | 0.56 | -0.11 (-0.26, 0.04) | 0.15 | 0.62 |
|  | Ln GM-CSF/IL-10 Year 1 | 591 | 6 | 16 | 1.7 | 1.82 | 0.12 (-0.11, 0.35) | 0.3 | 0.65 | 1.96 | 2.06 | 0.1 (-0.16, 0.35) | 0.47 | 0.97 |
|  | Ln IL-2/IL-10 Year 1 | 582 | 6 | 16 | -2.7 | -2.61 | 0.1 (-0.03, 0.22) | 0.12 | 0.65 | -2.7 | -2.6 | 0.1 (-0.02, 0.22) | 0.12 | 0.62 |
|  | Ln IFN-y Year 1 | 593 | 6 | 16 | 2.03 | 2.04 | 0.02 (-0.05, 0.08) | 0.64 | 0.88 | 1.9 | 1.9 | -0.01 (-0.08, 0.07) | 0.89 | 0.97 |
|  | Ln CRP Year 1 | 541 | 6 | 16 | -0.14 | 0.04 | 0.19 (0.01, 0.36) | 0.04 | 0.5 | 0.15 | 0.22 | 0.07 (-0.02, 0.16) | 0.13 | 0.62 |
|  | Ln AGP Year 1 | 528 | 6 | 16 | -0.12 | -0.07 | 0.05 (-0.03, 0.13) | 0.26 | 0.65 | 0.09 | 0.1 | 0.02 (-0.27, 0.3) | 0.92 | 0.97 |
|  | Ln IGF-1 Year 1 | 527 | 6 | 16 | 3.64 | 3.6 | -0.03 (-0.1, 0.03) | 0.35 | 0.65 | 3.51 | 3.58 | 0.07 (-0.06, 0.2) | 0.29 | 0.8 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Sum score of inflammation Year 2 | 666 | 6 | 16 | -0.12 | 0.01 | 0.13 (-0.03, 0.29) | 0.12 | 0.7 | 0.05 | 0.11 | 0.06 (-0.3, 0.43) | 0.76 | 0.99 |
|  | Ln Th1/Th2 Year 2 | 663 | 6 | 16 | -0.05 | -0.06 | 0 (-0.05, 0.04) | 0.89 | 0.93 | -0.04 | -0.02 | 0.02 (-0.03, 0.07) | 0.47 | 0.99 |
|  | Ln Th1/Th17 Year 2 | 656 | 6 | 16 | 0.49 | 0.45 | -0.04 (-0.14, 0.06) | 0.43 | 0.79 | 0.31 | 0.28 | -0.03 (-0.13, 0.08) | 0.61 | 0.99 |
|  | Ln Th1/IL-10 Year 2 | 662 | 6 | 16 | 1.5 | 1.46 | -0.04 (-0.09, 0.02) | 0.17 | 0.7 | 1.37 | 1.35 | -0.01 (-0.04, 0.01) | 0.29 | 0.99 |
|  | Ln Th2/IL-10 Year 2 | 660 | 6 | 16 | 1.5 | 1.47 | -0.03 (-0.1, 0.03) | 0.28 | 0.7 | 1.32 | 1.3 | -0.02 (-0.05, 0.02) | 0.33 | 0.99 |
|  | Ln Th17/IL-10 Year 2 | 652 | 6 | 16 | 0.94 | 0.95 | 0.01 (-0.13, 0.16) | 0.89 | 0.93 | 0.87 | 0.88 | 0.01 (-1.48, 1.5) | 0.99 | 0.99 |
|  | Ln GM-CSF/IL-10 Year 2 | 662 | 6 | 16 | 2.25 | 2.24 | -0.01 (-0.1, 0.08) | 0.8 | 0.93 | 2.39 | 2.38 | 0 (-0.09, 0.08) | 0.94 | 0.99 |
|  | Ln IL-2/IL-10 Year 2 | 653 | 6 | 16 | -2.23 | -2.26 | -0.03 (-0.15, 0.08) | 0.59 | 0.93 | -2.43 | -2.44 | -0.01 (-0.14, 0.11) | 0.85 | 0.99 |
|  | Ln IFN-y Year 2 | 666 | 6 | 16 | 1.93 | 1.92 | -0.01 (-0.07, 0.05) | 0.81 | 0.93 | 1.98 | 2 | 0.02 (-0.05, 0.08) | 0.6 | 0.99 |
|  | Ln CRP Year 2 | 1358 | 6 | 16 | -0.12 | -0.07 | 0.06 (-0.03, 0.14) | 0.18 | 0.7 | -0.31 | -0.27 | 0.04 (0, 0.09) | 0.06 | 0.47 |
|  | Ln AGP Year 2 | 824 | 6 | 16 | -0.22 | -0.2 | 0.02 (-0.01, 0.06) | 0.24 | 0.7 | -0.18 | -0.16 | 0.02 (0, 0.04) | 0.12 | 0.69 |
|  | Ln IGF-1 Year 2 | 689 | 6 | 16 | 3.89 | 3.88 | -0.01 (-0.06, 0.04) | 0.73 | 0.93 | 3.85 | 3.88 | 0.02 (-0.06, 0.11) | 0.61 | 0.99 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Binary CES-D Score Year 1 | Sum score of inflammation Year 1 | 593 | 0 | 1 | 0.01 | -0.02 | -0.03 (-0.21, 0.15) | 0.78 | 0.88 | 0.01 | -0.02 | -0.03 (-0.21, 0.15) | 0.78 | 0.97 |
|  | Ln Th1/Th2 Year 1 | 588 | 0 | 1 | 0.15 | 0.18 | 0.03 (-0.05, 0.11) | 0.5 | 0.8 | 0.15 | 0.18 | 0.03 (-0.05, 0.11) | 0.5 | 0.97 |
|  | Ln Th1/Th17 Year 1 | 583 | 0 | 1 | 0.4 | 0.39 | -0.01 (-0.1, 0.08) | 0.88 | 0.88 | 0.4 | 0.39 | -0.01 (-0.1, 0.08) | 0.88 | 0.97 |
|  | Ln Th1/IL-10 Year 1 | 590 | 0 | 1 | 1.11 | 1.1 | -0.01 (-0.11, 0.08) | 0.81 | 0.88 | 1.11 | 1.1 | -0.01 (-0.11, 0.08) | 0.81 | 0.97 |
|  | Ln Th2/IL-10 Year 1 | 588 | 0 | 1 | 0.92 | 0.86 | -0.06 (-0.18, 0.05) | 0.3 | 0.65 | 0.92 | 0.86 | -0.06 (-0.18, 0.05) | 0.3 | 0.8 |
|  | Ln Th17/IL-10 Year 1 | 582 | 0 | 1 | 0.68 | 0.67 | -0.01 (-0.14, 0.11) | 0.84 | 0.88 | 0.68 | 0.67 | -0.01 (-0.14, 0.11) | 0.84 | 0.97 |
|  | Ln GM-CSF/IL-10 Year 1 | 591 | 0 | 1 | 1.64 | 1.67 | 0.03 (-0.14, 0.2) | 0.74 | 0.88 | 1.64 | 1.67 | 0.03 (-0.14, 0.2) | 0.74 | 0.97 |
|  | Ln IL-2/IL-10 Year 1 | 582 | 0 | 1 | -2.67 | -2.58 | 0.09 (-0.12, 0.31) | 0.4 | 0.69 | -2.67 | -2.58 | 0.09 (-0.12, 0.31) | 0.4 | 0.96 |
|  | Ln IFN-y Year 1 | 593 | 0 | 1 | 2.03 | 2.05 | 0.02 (-0.08, 0.11) | 0.73 | 0.88 | 2.03 | 2.05 | 0.02 (-0.08, 0.11) | 0.73 | 0.97 |
|  | Ln CRP Year 1 | 541 | 0 | 1 | -0.1 | 0.11 | 0.2 (-0.11, 0.51) | 0.2 | 0.65 | -0.1 | 0.11 | 0.2 (-0.11, 0.51) | 0.2 | 0.68 |
|  | Ln AGP Year 1 | 528 | 0 | 1 | -0.11 | -0.04 | 0.07 (-0.02, 0.15) | 0.11 | 0.65 | -0.11 | -0.04 | 0.07 (-0.02, 0.15) | 0.11 | 0.62 |
|  | Ln IGF-1 Year 1 | 527 | 0 | 1 | 3.64 | 3.55 | -0.09 (-0.2, 0.03) | 0.14 | 0.65 | 3.64 | 3.55 | -0.09 (-0.2, 0.03) | 0.14 | 0.62 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Sum score of inflammation Year 2 | 666 | 0 | 1 | -0.08 | -0.07 | 0.01 (-0.16, 0.18) | 0.93 | 0.93 | 0.08 | -0.26 | -0.35 (-0.66, -0.04) | 0.03 | 0.47 |
|  | Ln Th1/Th2 Year 2 | 663 | 0 | 1 | -0.06 | -0.05 | 0.01 (-0.08, 0.1) | 0.82 | 0.93 | -0.04 | 0 | 0.04 (-0.05, 0.13) | 0.42 | 0.99 |
|  | Ln Th1/Th17 Year 2 | 656 | 0 | 1 | 0.46 | 0.47 | 0.01 (-0.07, 0.09) | 0.79 | 0.93 | 0.28 | 0.34 | 0.06 (-0.03, 0.15) | 0.17 | 0.82 |
|  | Ln Th1/IL-10 Year 2 | 662 | 0 | 1 | 1.49 | 1.44 | -0.05 (-0.15, 0.05) | 0.3 | 0.7 | 1.37 | 1.39 | 0.01 (-0.15, 0.18) | 0.87 | 0.99 |
|  | Ln Th2/IL-10 Year 2 | 660 | 0 | 1 | 1.5 | 1.44 | -0.06 (-0.18, 0.06) | 0.32 | 0.7 | 1.31 | 1.29 | -0.03 (-0.14, 0.08) | 0.65 | 0.99 |
|  | Ln Th17/IL-10 Year 2 | 652 | 0 | 1 | 1 | 0.94 | -0.06 (-0.17, 0.06) | 0.32 | 0.7 | 0.91 | 0.92 | 0.01 (-0.35, 0.37) | 0.96 | 0.99 |
|  | Ln GM-CSF/IL-10 Year 2 | 662 | 0 | 1 | 2.26 | 2.22 | -0.03 (-0.2, 0.13) | 0.71 | 0.93 | 2.39 | 2.36 | -0.03 (-0.2, 0.14) | 0.74 | 0.99 |
|  | Ln IL-2/IL-10 Year 2 | 653 | 0 | 1 | -2.22 | -2.35 | -0.13 (-0.35, 0.09) | 0.24 | 0.7 | -2.41 | -2.54 | -0.14 (-0.36, 0.09) | 0.23 | 0.93 |
|  | Ln IFN-y Year 2 | 666 | 0 | 1 | 1.94 | 1.89 | -0.06 (-0.17, 0.05) | 0.32 | 0.7 | 2 | 1.97 | -0.02 (-0.14, 0.09) | 0.71 | 0.99 |
|  | Ln CRP Year 2 | 1358 | 0 | 1 | -0.1 | -0.05 | 0.05 (-0.11, 0.21) | 0.56 | 0.93 | -0.35 | -0.86 | -0.51 (-1.01, -0.01) | 0.05 | 0.47 |
|  | Ln AGP Year 2 | 824 | 0 | 1 | -0.23 | -0.16 | 0.07 (-0.01, 0.14) | 0.07 | 0.7 | -0.18 | -0.13 | 0.06 (-0.08, 0.2) | 0.43 | 0.99 |
|  | Ln IGF-1 Year 2 | 689 | 0 | 1 | 3.9 | 3.86 | -0.04 (-0.12, 0.05) | 0.39 | 0.78 | 3.88 | 3.88 | 0 (-0.08, 0.08) | 0.95 | 0.99 |
| N, 25th Percentile, and 75th Percentile are from the unadjusted analyses | | | | | | | | | | | | | | |

## Table S4: Association between CES-D Scores at Year 2 and Child Immune Status

| CES-D Year 2 | 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 |
| CES-D Score Year 2 | Sum score of inflammation Year 2 | 656 | 5 | 17 | -0.11 | -0.09 | 0.02 (-0.08, 0.11) | 0.73 | 0.97 | 0.06 | 0.09 | 0.02 (-0.15, 0.19) | 0.8 | 0.97 |
|  | Ln Th1/Th2 Year 2 | 653 | 5 | 17 | -0.07 | -0.06 | 0.01 (-0.04, 0.05) | 0.82 | 0.97 | -0.06 | -0.05 | 0.01 (-0.04, 0.06) | 0.72 | 0.97 |
|  | Ln Th1/Th17 Year 2 | 647 | 5 | 17 | 0.46 | 0.45 | -0.01 (-0.06, 0.05) | 0.78 | 0.97 | 0.29 | 0.3 | 0.01 (-0.04, 0.06) | 0.69 | 0.97 |
|  | Ln Th1/IL-10 Year 2 | 651 | 5 | 17 | 1.48 | 1.43 | -0.05 (-0.18, 0.07) | 0.41 | 0.97 | 1.37 | 1.36 | -0.01 (-0.13, 0.12) | 0.93 | 0.97 |
|  | Ln Th2/IL-10 Year 2 | 649 | 5 | 17 | 1.53 | 1.47 | -0.07 (-0.15, 0.02) | 0.13 | 0.81 | 1.37 | 1.34 | -0.02 (-0.1, 0.05) | 0.54 | 0.97 |
|  | Ln Th17/IL-10 Year 2 | 642 | 5 | 17 | 0.99 | 0.97 | -0.01 (-0.15, 0.13) | 0.86 | 0.97 | 0.9 | 0.92 | 0.03 (-0.12, 0.17) | 0.73 | 0.97 |
|  | Ln GM-CSF/IL-10 Year 2 | 651 | 5 | 17 | 2.24 | 2.23 | -0.01 (-0.09, 0.08) | 0.91 | 0.97 | 2.33 | 2.34 | 0.01 (-0.08, 0.09) | 0.89 | 0.97 |
|  | Ln IL-2/IL-10 Year 2 | 642 | 5 | 17 | -2.18 | -2.27 | -0.09 (-0.2, 0.02) | 0.12 | 0.81 | -2.35 | -2.42 | -0.07 (-0.19, 0.05) | 0.25 | 0.97 |
|  | Ln IFN-y Year 2 | 656 | 5 | 17 | 1.94 | 1.92 | -0.02 (-0.09, 0.05) | 0.54 | 0.97 | 1.97 | 1.98 | 0 (-0.06, 0.07) | 0.9 | 0.97 |
|  | Ln CRP Year 2 | 1337 | 5 | 17 | -0.11 | -0.1 | 0.01 (-0.08, 0.09) | 0.85 | 0.97 | -0.32 | -0.35 | -0.03 (-0.13, 0.06) | 0.53 | 0.97 |
|  | Ln AGP Year 2 | 808 | 5 | 17 | -0.2 | -0.21 | 0 (-0.04, 0.04) | 0.91 | 0.97 | -0.18 | -0.19 | -0.01 (-0.06, 0.03) | 0.64 | 0.97 |
|  | Ln IGF-1 Year 2 | 680 | 5 | 17 | 3.93 | 3.86 | -0.07 (-0.16, 0.01) | 0.1 | 0.81 | 3.9 | 3.89 | -0.01 (-0.09, 0.07) | 0.86 | 0.97 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Binary CES-D Score Year 2 | Sum score of inflammation Year 2 | 656 | 0 | 1 | -0.13 | -0.03 | 0.11 (-0.07, 0.28) | 0.24 | 0.94 | 0.02 | 0.13 | 0.12 (-0.07, 0.3) | 0.23 | 0.97 |
|  | Ln Th1/Th2 Year 2 | 653 | 0 | 1 | -0.06 | -0.06 | 0 (-0.09, 0.09) | 0.98 | 0.98 | -0.05 | -0.06 | -0.01 (-0.11, 0.09) | 0.85 | 0.97 |
|  | Ln Th1/Th17 Year 2 | 647 | 0 | 1 | 0.46 | 0.45 | -0.01 (-0.09, 0.07) | 0.85 | 0.97 | 0.29 | 0.3 | 0.01 (-0.08, 0.1) | 0.9 | 0.97 |
|  | Ln Th1/IL-10 Year 2 | 651 | 0 | 1 | 1.48 | 1.43 | -0.05 (-0.14, 0.05) | 0.31 | 0.97 | 1.37 | 1.38 | 0.02 (-0.09, 0.12) | 0.79 | 0.97 |
|  | Ln Th2/IL-10 Year 2 | 649 | 0 | 1 | 1.51 | 1.45 | -0.06 (-0.18, 0.06) | 0.32 | 0.97 | 1.36 | 1.33 | -0.03 (-0.15, 0.1) | 0.68 | 0.97 |
|  | Ln Th17/IL-10 Year 2 | 642 | 0 | 1 | 0.99 | 0.94 | -0.05 (-0.16, 0.06) | 0.41 | 0.97 | 0.91 | 0.91 | 0 (-0.12, 0.13) | 0.99 | 0.99 |
|  | Ln GM-CSF/IL-10 Year 2 | 651 | 0 | 1 | 2.24 | 2.23 | -0.01 (-0.17, 0.15) | 0.92 | 0.97 | 2.33 | 2.34 | 0.01 (-0.16, 0.18) | 0.92 | 0.97 |
|  | Ln IL-2/IL-10 Year 2 | 642 | 0 | 1 | -2.21 | -2.34 | -0.14 (-0.35, 0.08) | 0.21 | 0.94 | -2.36 | -2.48 | -0.12 (-0.34, 0.11) | 0.32 | 0.97 |
|  | Ln IFN-y Year 2 | 656 | 0 | 1 | 1.93 | 1.94 | 0.01 (-0.1, 0.12) | 0.87 | 0.97 | 1.94 | 1.98 | 0.05 (-0.07, 0.17) | 0.43 | 0.97 |
|  | Ln CRP Year 2 | 1337 | 0 | 1 | -0.11 | -0.09 | 0.02 (-0.15, 0.18) | 0.85 | 0.97 | -0.32 | -0.37 | -0.05 (-0.23, 0.14) | 0.62 | 0.97 |
|  | Ln AGP Year 2 | 808 | 0 | 1 | -0.2 | -0.21 | 0 (-0.08, 0.07) | 0.93 | 0.97 | -0.18 | -0.19 | -0.01 (-0.1, 0.08) | 0.83 | 0.97 |
|  | Ln IGF-1 Year 2 | 680 | 0 | 1 | 3.92 | 3.84 | -0.08 (-0.16, 0.01) | 0.07 | 0.81 | 3.91 | 3.88 | -0.03 (-0.11, 0.05) | 0.5 | 0.97 |
| N, 25th Percentile, and 75th Percentile are from the unadjusted analyses | | | | | | | | | | | | | | | |