## Table 5: Maternal Micronutrients and Child Growth Status

| Maternal Micronutrients and Child Growth | Outcome | N | 25th Percentile | 75th Percentile | Outcome, 75th Percentile v. 25th Percentile | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | Adjusted | | | |
|  |  |  |  |  | Predicted Outcome at 25th Percentile | Predicted Outcome at 75th Percentile | Coefficient (95% CI) | P-value |
| Vitamin D (nmol/L) | Length-for-Age Z-Score 3 months | 307 | 32.57 | 53.61 | -1.25 | -1.31 | -0.06 (-0.23, 0.11) | 0.49 |
|  | Weight-for-Length Z-Score 3 months | 305 | 32.61 | 53.81 | -0.2 | -0.2 | 0 (-0.31, 0.3) | 0.99NA |
|  | Length-for-Age Z-Score 14 months | 507 | 32.59 | 54.56 | -0.89 | -0.96 | -0.07 (-0.18, 0.04) | 0.21 |
|  | Weight-for-Length Z-Score 14 months | 509 | 32.61 | 54.58 | -0.85 | -0.77 | 0.08 (-0.12, 0.29) | 0.44NA |
|  | Ln IGF-1 14 months (ug/L) | 421 | 32.43 | 54.53 | 38.98 | 39.81 | 0.83 (-2.15, 3.81) | 0.6NA |
|  | Length-for-Age Z-Score 28 months | 538 | 32.45 | 55.29 | -1.41 | -1.48 | -0.06 (-0.19, 0.06) | 0.34 |
|  | Weight-for-Length Z-Score 28 months | 541 | 32.53 | 55.33 | -0.85 | -0.81 | 0.04 (-0.18, 0.26) | 0.72NA |
|  | Ln IGF-1 28 months (ug/L) | 504 | 32.6 | 55.52 | 51.41 | 54.77 | 3.36 (-2, 8.71) | 0.22NA |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Ln RBP (umol/L) | Length-for-Age Z-Score 3 months | 307 | 0.13 | 0.53 | -1.3 | -1.28 | 0.01 (-0.16, 0.19) | 0.87 |
|  | Weight-for-Length Z-Score 3 months | 305 | 0.13 | 0.53 | -0.39 | 0.07 | 0.46 (0.13, 0.78) | 0.01NA |
|  | Length-for-Age Z-Score 14 months | 507 | 0.13 | 0.52 | -0.91 | -0.88 | 0.04 (-0.08, 0.15) | 0.56 |
|  | Weight-for-Length Z-Score 14 months | 509 | 0.13 | 0.52 | -0.92 | -0.64 | 0.28 (0.09, 0.48) | 0NA |
|  | Ln IGF-1 14 months (ug/L) | 421 | 0.13 | 0.52 | 37.72 | 39.5 | 1.78 (-0.33, 3.9) | 0.1NA |
|  | Length-for-Age Z-Score 28 months | 538 | 0.12 | 0.51 | -1.41 | -1.42 | -0.01 (-0.11, 0.1) | 0.92 |
|  | Weight-for-Length Z-Score 28 months | 541 | 0.12 | 0.51 | -0.89 | -0.84 | 0.05 (-0.06, 0.17) | 0.4NA |
|  | Ln IGF-1 28 months (ug/L) | 504 | 0.13 | 0.52 | 51 | 52.65 | 1.65 (-0.65, 3.94) | 0.16NA |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Ln sTfR (mg/L) | Length-for-Age Z-Score 3 months | 307 | 1.3 | 1.74 | -1.34 | -1.24 | 0.1 (-0.09, 0.29) | 0.31 |
|  | Weight-for-Length Z-Score 3 months | 305 | 1.3 | 1.74 | -0.14 | -0.15 | -0.01 (-0.26, 0.24) | 0.96NA |
|  | Length-for-Age Z-Score 14 months | 507 | 1.29 | 1.7 | -0.73 | -0.91 | -0.18 (-0.43, 0.06) | 0.14 |
|  | Weight-for-Length Z-Score 14 months | 509 | 1.29 | 1.7 | -0.8 | -0.76 | 0.04 (-0.07, 0.16) | 0.46NA |
|  | Ln IGF-1 14 months (ug/L) | 421 | 1.29 | 1.68 | 38.12 | 40.71 | 2.59 (-1.87, 7.04) | 0.26NA |
|  | Length-for-Age Z-Score 28 months | 538 | 1.3 | 1.71 | -1.42 | -1.36 | 0.07 (-0.13, 0.26) | 0.51 |
|  | Weight-for-Length Z-Score 28 months | 541 | 1.3 | 1.71 | -0.87 | -0.74 | 0.13 (-0.08, 0.33) | 0.22NA |
|  | Ln IGF-1 28 months (ug/L) | 504 | 1.3 | 1.7 | 50.63 | 53.53 | 2.9 (-1.81, 7.6) | 0.23NA |
|  |  |  |  |  |  |  |  |  |
| N, 25th Percentile, and 75th Percentile are from the adjusted analyses | | | | | | | | |
| \* P-value < 0.2 after adjusting for multiple comparisons using the Benjamini-Hochberg procedure | | | | | | | | |

## Table 3: Maternal Plasma Cortisol and Child Growth Status

| Maternal Cortisol and Child Growth Status | Outcome | N | 25th Percentile | 75th Percentile | Outcome, 75th Percentile v. 25th Percentile | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | Adjusted | | | |
|  |  |  |  |  | Predicted Outcome at 25th Percentile | Predicted Outcome at 75th Percentile | Coefficient (95% CI) | P-value |
| Ln Cortisol (ug/dL) | Length-for-Age Z-Score 3 months | 303 | 2.66 | 3.29 | -1.25 | -1.22 | 0.02 (-0.16, 0.21) | 0.82 |
|  | Weight-for-Length Z-Score 3 months | 336 | 2.66 | 3.29 | -0.27 | -0.30 | -0.03 (-0.2, 0.15) | 0.77NA |
|  | Length-for-Age Z-Score 14 months | 502 | 2.52 | 3.26 | -1.11 | -1.11 | 0 (-0.15, 0.14) | 0.99 |
|  | Weight-for-Length Z-Score 14 months | 504 | 2.52 | 3.27 | -0.86 | -0.88 | -0.02 (-0.16, 0.12) | 0.82NA |
|  | Ln IGF-1 14 months (ug/L) | 424 | 2.46 | 3.26 | 39.16 | 38.05 | -1.12 (-3.99, 1.76) | 0.45NA |
|  | Length-for-Age Z-Score 28 months | 533 | 2.53 | 3.27 | -1.45 | -1.50 | -0.05 (-0.16, 0.06) | 0.37 |
|  | Weight-for-Length Z-Score 28 months | 535 | 2.53 | 3.27 | -0.94 | -1.04 | -0.1 (-0.21, 0.01) | 0.08NA |
|  | Ln IGF-1 28 months (ug/L) | 498 | 2.53 | 3.26 | 51.84 | 48.59 | -3.25 (-8.52, 2.01) | 0.23NA |
| N, 25th Percentile, and 75th Percentile are from the adjusted analyses | | | | | | | | |
| \* P-value < 0.2 after adjusting for multiple comparisons using the Benjamini-Hochberg procedure | | | | | | | | |

## Table 2: Maternal Estriol and Child Growth Status

| Maternal Estriol and Child Growth Status | Outcome | N | 25th Percentile | 75th Percentile | Outcome, 75th Percentile v. 25th Percentile | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | Adjusted | | | |
|  |  |  |  |  | Predicted Outcome at 25th Percentile | Predicted Outcome at 75th Percentile | Coefficient (95% CI) | P-value |
| Ln Estriol (ng/mL) | Length-for-Age Z-Score 3 months | 303 | 1.04 | 1.81 | -1.41 | -1.29 | 0.12 (-0.04, 0.28) | 0.15 |
|  | Weight-for-Length Z-Score 3 months | 301 | 1.04 | 1.78 | -0.19 | -0.23 | -0.04 (-0.25, 0.17) | 0.71NA |
|  | Length-for-Age Z-Score 14 months | 502 | 0.75 | 1.71 | -0.63 | -0.44 | 0.19 (0.03, 0.35) | 0.02\* |
|  | Weight-for-Length Z-Score 14 months | 504 | 0.74 | 1.71 | -0.83 | -0.91 | -0.08 (-0.2, 0.04) | 0.19NA |
|  | Ln IGF-1 14 months (ug/L) | 417 | 0.73 | 1.71 | 38.79 | 38.25 | -0.53 (-3.6, 2.53) | 0.75NA |
|  | Length-for-Age Z-Score 28 months | 533 | 0.78 | 1.73 | -1.45 | -1.44 | 0.01 (-0.13, 0.15) | 0.87 |
|  | Weight-for-Length Z-Score 28 months | 536 | 0.78 | 1.73 | -0.91 | -1.00 | -0.1 (-0.22, 0.03) | 0.12NA |
|  | Ln IGF-1 28 months (ug/L) | 499 | 0.78 | 1.74 | 53.57 | 50.28 | -3.29 (-5.9, -0.68) | 0.01NA |
| N, 25th Percentile, and 75th Percentile are from the adjusted analyses | | | | | | | | |
| \* P-value < 0.2 after adjusting for multiple comparisons using the Benjamini-Hochberg procedure | | | | | | | | |

## Table 4: Maternal Inflammation and Child Growth Status

| Maternal Inflammation and Child Growth Status | Outcome | N | 25th Percentile | 75th Percentile | Outcome, 75th Percentile v. 25th Percentile | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | Adjusted | | | |
|  |  |  |  |  | Predicted Outcome at 25th Percentile | Predicted Outcome at 75th Percentile | Coefficient (95% CI) | P-value |
| Ln AGP (g/L) | Length-for-Age Z-Score 3 months | 307 | -1.11 | -0.6 | -1.13 | -1.33 | -0.2 (-0.41, 0.01) | 0.07 |
|  | Weight-for-Length Z-Score 3 months | 340 | -1.11 | -0.59 | -0.45 | -0.07 | 0.38 (0.07, 0.69) | 0.02NA |
|  | Length-for-Age Z-Score 14 months | 507 | -1.11 | -0.54 | -0.92 | -1.01 | -0.09 (-0.33, 0.15) | 0.47 |
|  | Weight-for-Length Z-Score 14 months | 509 | -1.11 | -0.54 | -0.91 | -0.82 | 0.08 (-0.03, 0.2) | 0.15NA |
|  | Ln IGF-1 14 months (ug/L) | 428 | -1.14 | -0.54 | 38.74 | 40.07 | 1.32 (-1.03, 3.67) | 0.27NA |
|  | Length-for-Age Z-Score 28 months | 538 | -1.11 | -0.58 | -1.41 | -1.43 | -0.03 (-0.23, 0.18) | 0.82 |
|  | Weight-for-Length Z-Score 28 months | 540 | -1.12 | -0.58 | -0.99 | -0.94 | 0.05 (-0.03, 0.13) | 0.25NA |
|  | Ln IGF-1 28 months (ug/L) | 503 | -1.14 | -0.58 | 50.95 | 53.52 | 2.58 (0.34, 4.81) | 0.02NA |
|  |  |  |  |  |  |  |  |  |
| Ln CRP (mg/L) | Length-for-Age Z-Score 3 months | 307 | 0.12 | 1.51 | -1.31 | -1.09 | 0.21 (-0.1, 0.53) | 0.19 |
|  | Weight-for-Length Z-Score 3 months | 340 | 0.1 | 1.51 | -0.36 | -0.33 | 0.03 (-0.33, 0.39) | 0.88NA |
|  | Length-for-Age Z-Score 14 months | 507 | 0 | 1.43 | -1.13 | -0.96 | 0.16 (-0.05, 0.38) | 0.14 |
|  | Weight-for-Length Z-Score 14 months | 509 | 0 | 1.43 | -1.01 | -0.81 | 0.21 (0, 0.41) | 0.05NA |
|  | Ln IGF-1 14 months (ug/L) | 428 | -0.12 | 1.42 | 38.54 | 39.55 | 1.01 (-1.42, 3.45) | 0.42NA |
|  | Length-for-Age Z-Score 28 months | 538 | -0.08 | 1.42 | -1.54 | -1.33 | 0.21 (0.01, 0.41) | 0.04 |
|  | Weight-for-Length Z-Score 28 months | 540 | -0.08 | 1.42 | -0.96 | -0.95 | 0.01 (-0.09, 0.11) | 0.85NA |
|  | Ln IGF-1 28 months (ug/L) | 503 | -0.11 | 1.41 | 49.86 | 51.38 | 1.52 (-1.84, 4.88) | 0.38NA |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Sum score of 13 cytokines | Length-for-Age Z-Score 3 months | 284 | -0.7 | 0.65 | -1.33 | -1.2 | 0.13 (-0.25, 0.52) | 0.51 |
|  | Weight-for-Length Z-Score 3 months | 281 | -0.7 | 0.65 | -0.28 | -0.34 | -0.05 (-0.25, 0.14) | 0.59NA |
|  | Length-for-Age Z-Score 14 months | 421 | -0.64 | 0.63 | -1.1 | -1.17 | -0.07 (-0.32, 0.17) | 0.57 |
|  | Weight-for-Length Z-Score 14 months | 421 | -0.64 | 0.63 | -0.83 | -0.94 | -0.12 (-0.24, 0.01) | 0.07NA |
|  | Ln IGF-1 14 months (ug/L) | 365 | -0.63 | 0.64 | 38.84 | 37.11 | -1.72 (-4.33, 0.89) | 0.2NA |
|  | Length-for-Age Z-Score 28 months | 509 | -0.64 | 0.65 | -1.32 | -1.49 | -0.17 (-0.4, 0.06) | 0.15 |
|  | Weight-for-Length Z-Score 28 months | 510 | -0.64 | 0.65 | -0.86 | -0.96 | -0.1 (-0.14, -0.07) | 0NA |
|  | Ln IGF-1 28 months (ug/L) | 479 | -0.64 | 0.65 | 50.99 | 47.27 | -3.72 (-8.1, 0.66) | 0.1NA |
| N, 25th Percentile, and 75th Percentile are from the adjusted analyses | | | | | | | | |
| \* P-value < 0.2 after adjusting for multiple comparisons using the Benjamini-Hochberg procedure | | | | | | | | |