## EMM Table: Effect modification of maternal micronutrients and child telomere length by treatment arm

| Effect Modifier | Maternal micronutrients | 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 |
| Arm | Vitamin D (nmol/L) | Telomere Length Year 1 | 457 | Control | -0.15 (-0.35, 0.05) | 0.15 | 0.65 |  |  |
|  |  |  |  | Nutrition + WSH | 0.02 (-0.14, 0.18) | 0.82 | 0.89 | 0.2 | 0.68 |
|  |  | Telomere Length Year 2 | 514 | Control | -0.1 (-0.27, 0.07) | 0.26 | 0.65 |  |  |
|  |  |  |  | Nutrition + WSH | 0.01 (-0.13, 0.15) | 0.93 | 0.94 | 0.4 | 0.86 |
|  |  | Telomere Length change between Year 1 and Year 2 | 401 | Control | -0.03 (-0.23, 0.18) | 0.82 | 0.89 |  |  |
|  |  |  |  | Nutrition + WSH | -0.09 (-0.25, 0.07) | 0.28 | 0.65 | 0.64 | 0.91 |
|  |  |  |  |  |  |  |  |  |  |
|  | Vitamin D deficiency | Telomere Length Year 1 | 457 | Control | 0.21 (-0.2, 0.62) | 0.32 | 0.71 |  |  |
|  |  |  |  | Nutrition + WSH | -0.09 (-0.38, 0.2) | 0.54 | 0.81 | 0.23 | 0.69 |
|  |  | Telomere Length Year 2 | 514 | Control | 0.09 (-0.26, 0.45) | 0.62 | 0.85 |  |  |
|  |  |  |  | Nutrition + WSH | -0.08 (-0.33, 0.17) | 0.52 | 0.81 | 0.58 | 0.86 |
|  |  | Telomere Length change between Year 1 and Year 2 | 401 | Control | 0.08 (-0.35, 0.5) | 0.73 | 0.85 |  |  |
|  |  |  |  | Nutrition + WSH | 0.09 (-0.21, 0.38) | 0.58 | 0.84 | 0.97 | 0.97 |
|  |  |  |  |  |  |  |  |  |  |
|  | Ln RBP (umol/L) | Telomere Length Year 1 | 457 | Control | 0.14 (-0.09, 0.37) | 0.24 | 0.65 |  |  |
|  |  |  |  | Nutrition + WSH | 0.16 (-0.06, 0.37) | 0.16 | 0.65 | 0.86 | 0.97 |
|  |  | Telomere Length Year 2 | 514 | Control | 0.06 (-0.22, 0.34) | 0.68 | 0.85 |  |  |
|  |  |  |  | Nutrition + WSH | 0.05 (-0.22, 0.31) | 0.75 | 0.85 | 0.93 | 0.97 |
|  |  | Telomere Length change between Year 1 and Year 2 | 401 | Control | -0.1 (-0.26, 0.07) | 0.25 | 0.65 |  |  |
|  |  |  |  | Nutrition + WSH | -0.05 (-0.2, 0.1) | 0.54 | 0.81 | 0.7 | 0.93 |
|  |  |  |  |  |  |  |  |  |  |
|  | Vitamin A deficiency | Telomere Length Year 1 | 457 | Control | 0.02 (-0.09, 0.14) | 0.74 | 0.85 |  |  |
|  |  |  |  | Nutrition + WSH | 0.05 (-0.15, 0.25) | 0.66 | 0.85 | 0.16 | 0.68 |
|  |  | Telomere Length Year 2 | 514 | Control | -0.71 (-1.74, 0.32) | 0.17 | 0.65 |  |  |
|  |  |  |  | Nutrition + WSH | -0.69 (-1.33, -0.04) | 0.04 | 0.65 | 0.88 | 0.97 |
|  |  | Telomere Length change between Year 1 and Year 2 | 401 | Control | -0.6 (-1.67, 0.47) | 0.28 | 0.65 |  |  |
|  |  |  |  | Nutrition + WSH | -0.7 (-1.65, 0.24) | 0.14 | 0.65 | 0.89 | 0.97 |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Ln ferritin (ug/L) | Telomere Length Year 1 | 457 | Control | 0.04 (-0.19, 0.27) | 0.75 | 0.85 |  |  |
|  |  |  |  | Nutrition + WSH | -0.05 (-0.25, 0.15) | 0.66 | 0.85 | 0.47 | 0.86 |
|  |  | Telomere Length Year 2 | 514 | Control | 0.24 (-0.04, 0.52) | 0.09 | 0.65 |  |  |
|  |  |  |  | Nutrition + WSH | 0.19 (-0.07, 0.45) | 0.16 | 0.65 | 0.55 | 0.86 |
|  |  | Telomere Length change between Year 1 and Year 2 | 401 | Control | 0.08 (-0.14, 0.31) | 0.48 | 0.81 |  |  |
|  |  |  |  | Nutrition + WSH | -0.09 (-0.29, 0.12) | 0.42 | 0.8 | 0.27 | 0.72 |
|  |  |  |  |  |  |  |  |  |  |
|  | Ln sTfR (mg/L) | Telomere Length Year 1 | 457 | Control | 0.02 (-0.32, 0.36) | 0.92 | 0.94 |  |  |
|  |  |  |  | Nutrition + WSH | 0.23 (-0.1, 0.55) | 0.17 | 0.65 | 0.06 | 0.68 |
|  |  | Telomere Length Year 2 | 514 | Control | -0.13 (-0.3, 0.03) | 0.12 | 0.65 |  |  |
|  |  |  |  | Nutrition + WSH | -0.01 (-0.12, 0.11) | 0.94 | 0.94 | 0.2 | 0.68 |
|  |  | Telomere Length change between Year 1 and Year 2 | 401 | Control | -0.13 (-0.32, 0.06) | 0.17 | 0.65 |  |  |
|  |  |  |  | Nutrition + WSH | 0.06 (-0.07, 0.2) | 0.37 | 0.75 | 0.08 | 0.68 |
|  |  |  |  |  |  |  |  |  |  |
|  | Iron deficiency | Telomere Length Year 1 | 457 | Control | -0.13 (-0.47, 0.22) | 0.49 | 0.81 |  |  |
|  |  |  |  | Nutrition + WSH | -0.11 (-0.39, 0.18) | 0.47 | 0.81 | 0.88 | 0.97 |
|  |  | Telomere Length Year 2 | 514 | Control | -0.2 (-0.49, 0.09) | 0.18 | 0.65 |  |  |
|  |  |  |  | Nutrition + WSH | -0.15 (-0.39, 0.1) | 0.24 | 0.65 | 0.52 | 0.86 |
|  |  | Telomere Length change between Year 1 and Year 2 | 401 | Control | -0.16 (-0.49, 0.17) | 0.36 | 0.75 |  |  |
|  |  |  |  | Nutrition + WSH | 0.18 (-0.12, 0.47) | 0.24 | 0.65 | 0.13 | 0.68 |