**Supplementary Information**

**Supplementary table 1:** Baseline characteristics of children lost to follow-up vs children followed up for 12 weeks

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Lost to follow-up** | **Followed up** | **p-value** |
|  | ***N*** |  | ***N*** |  |  |
| **Sociodemographics** |  |  |  |  |  |
| Age (months) | 61 | 12.3 [9.5;17.1] | 1548 | 11.2 [8.2;16.0] | 0.055 |
| Sex (male) | 61 | 49% (30) | 1548 | 45% (700) | 0.54 |
|  |  |  |  |  |  |
| **Anthropometry** |  |  |  |  |  |
| Weight (kg) | 61 | 7.1 ± 0.9 | 1548 | 6.9 ± 0.9 | 0.21 |
| Length (cm) | 61 | 71.4 ± 5.0 | 1548 | 70.4 ± 5.3 | 0.16 |
| Length-for-age (Z-score) | 61 | -1.8 ± 1.4 | 1548 | -1.7 ± 1.1 | 0.41 |
| Weight-for-age (Z-score) | 61 | -2.6 ± 0.7 | 1548 | 2.5 ± 0.6 | 0.26 |
| Weight-for-length (Z-score) | 61 | -2.3 ± 0.5 | 1548 | -2.2 ± 0.5 | 0.22 |
| MUAC (mm)  | 61 | 122 ± 4.1 | 1548 | 123 ± 4.0 | 0.80 |
| Knee heel length (mm) | 61 | 194 ± 18 | 1547 | 192 ± 18 | 0.42 |
| Inclusion criteria | 61 |  | 1548 |  | 0.51 |
|  *WLZ and MUAC* |  | 56% (34) |  | 50% (770) |  |
|  *WLZ only* |  | 23% (14) |  | 29% (454) |  |
|  *MUAC only* |  | 21% (13) |  | 21% (324) |  |
|  |  |  |  |  |  |
| **Morbidity and inflammation** |  |  |  |  |  |
| Ill in the last 2 weeks1  | 61 | 41% (25) | 1539 | 38% (583) | 0.64 |
| Diarrhea1 | 61 | 26% (16) | 1548 | 20% (304) | 0.21 |
| Cough1  | 61 | 30% (18) | 1545 | 29% (455) | 0.99 |
| Fever (≥37.5℃)2 | 61 | 16% (10) | 1546 | 18% (275) | 0.78 |
| Malaria rapid test (positive) | 61 | 34% (21) | 1540 | 40% (623) | 0.35 |
| CRP (mg/L) | 59 | 2.8 [1.0; 11.4] | 1505 | 2.3 [0.8; 9.3] | 0.43 |
| AGP (g/L) | 59 | 1.36 [1.03; 1.65] | 1505 | 1.22 [0.87; 1.64] | 0.15 |
|  |  |  |  |  |  |
| **Breastfeeding** | 61 | 90% (55) | 1546 | 95% (1466) | 0.11 |
|  |  |  |  |  |  |
| **IGF-1 (ng/mL)** | 60 | 10.8 [7.1; 17.4] | 1489 | 12.1 [8.2; 18.3] | 0.10 |
| Values are presented as % (n), mean ±SD or median [interquartile range]. They are compared with Chi2, T-test or Mann-Whitney U, respectivelyAbbreviations: MUAC = Mid-upper arm circumference, CRP = C-reactive protein, AGP = α1-acid glycoprotein, IGF-1 = Insulin-like growth factor 11Based on maternal recall and physical examination, 2Based on physical examination |

**Supplementary table 2:** Baseline characteristics of children with vs without measurement of IGF-1 at baseline

|  |  |  |  |
| --- | --- | --- | --- |
|  | **No IGF-1 measurement** | **IGF-1 measurement** | **p-value** |
|  | ***N*** |  | ***N*** |  |  |
| **Sociodemographics** |  |  |  |  |  |
| Age (months) | 60 | 9.6 [7.7; 12.7] | 1549 | 11.4 [8.2; 16.2] | 0.013 |
| Sex (male) | 60 | 47% (28) | 1549 | 45% (702) | 0.84 |
|  |  |  |  |  |  |
| **Anthropometry** |  |  |  |  |  |
| Weight (kg) | 60 | 6.7 ± 0.9 | 1549 | 6.9 ± 0.9 | 0.035 |
| Length (cm) | 60 | 68.9 ± 4.7 | 1549 | 70.5 ± 5.3 | 0.022 |
| Length-for-age (Z-score) | 60 | -1.6 ± 1.1 | 1549 | -1.7 ± 1.1 | 0.72 |
| Weight-for-age (Z-score) | 60 | -2.5 ± 0.7 | 1549 | -2.5 ± 0.6 | 0.86 |
| Weight-for-length (Z-score) | 60 | -2.2 ± 0.5 | 1549 | -2.2 ± 0.5 | 0.66 |
| MUAC (mm)  | 60 | 122 ± 3.9 | 1549 | 123 ± 4.0 | 0.72 |
| Knee heel length (mm) | 60 | 187 ± 15 | 1548 | 192 ± 18 | 0.026 |
| Inclusion criteria | 60 |  | 1549 |  | 0.77 |
|  *WLZ and MUAC* |  | 53% (32) |  | 50% (772) |  |
|  *WLZ only* |  | 22% (13) |  | 21% (324) |  |
|  *MUAC only* |  | 25% (15) |  | 29% (453) |  |
|  |  |  |  |  |  |
| **Morbidity and inflammation** |  |  |  |  |  |
| Ill in the last 2 weeks1  | 60 | 50% (30) | 1540 | 38% (578) | 0.051 |
| Diarrhea1 | 60 | 25% (15) | 1549 | 20% (305) | 0.31 |
| Cough1  | 60 | 35% (21) | 1546 | 29% (452) | 0.34 |
| Fever (≥37.5℃)2 | 60 | 33% (20) | 1547 | 17% (265) | 0.001 |
| Malaria rapid test (positive) | 58 | 45% (26) | 1543 | 40% (618) | 0.47 |
| CRP (mg/L) | 18 | 11 [1.6; 29.9] | 1546 | 2.3 [0.8; 9.3] | 0.025 |
| AGP (g/L) | 18 | 1.81 [1.28; 2.23] | 1546 | 1.22 [0.87; 1.63] | 0.004 |
|  |  |  |  |  |  |
| **Breastfeeding** | 60 | 97% (58) | 1547 | 95% (1463) | 0.48 |
| Values are presented as % (n), mean ±SD or median [interquartile range]. They are compared with Chi2, T-test or Mann-Whitney U, respectivelyAbbreviations: MUAC = Mid-upper arm circumference, CRP = C-reactive protein, AGP = α1-acid glycoprotein, IGF-1 = Insulin-like growth factor 11Based on maternal recall and physical examination, 2Based on physical examination |