Supplementary Table S1: Serum vitamin D, vitamin A and zinc status in 6-24 months old underweight and normal weight children

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|  | Underweight children(Weight for age z score <-2)(n=466) | Normal weight children(Weight for age z score ≥-1)(n=445) |
| Serum vitamin D (nmol/l)  |  |  |
| Mean ± SD  | 60.7±23.3 | 54.2±20.8 |
| Sufficient (≥75 nmol/l) % (n) | 23.4 (109) | 15.0 (67) |
| Insufficient (≥50 and <75 nmol/l) % (n) | 41.8 (195) | 39.5(176) |
| Deficient (<50 nmol/l) % (n) | 34.8 (162) | 45.5 (203) |
| Serum vitamin A (µmol/l) |  |  |
| Mean ± SD | 0.77±0.27 | 0.83±0.27 |
| Mild deficiency or normal status (>=0.7 µmol/l) % (n) | 59.4 (277) | 65.9 (294) |
| moderate to severe serum retinol deficiency (<0.7 µmol/l) % (n) | 40.6 (189) | 34.1 (152) |
| Serum zinc (µmol/l) |  |  |
| Mean ± SD | 11.5±2.1 | 11.6±1.9 |
| Sufficiency (≥9.9 µmol/l) % (n) | 80.0 (373) | 83.9 (374) |
| Insufficiency (<9.9 µmol/l) % (n) | 20.0 (93) | 16.1 (72) |