Nutritional survey analysis results:

ADD SURVEY DETAILS - STUDY LOCATION, STUDY PERIOD, ETC

12 Jun 2017

Reference/recommended citation:

# Overall survey results summary

## Outcome plots

Figure 1: Nutritional status by stratification variable

# Summary on survey description

## Sample size:

The original sample was of 1653 children. There were 1645 children under age 5 years who were present in the sample households; height measurements were obtained for 1572 (95.6%) children and weight measurements were obtained for 1578 (95.9%).

Oedema mapping variable not provided.

## Sample design:

## Household listing (source or how was it done to update existing information)

## Training of field staff: How many, how many teams, how many measurements per team per day

## Standardization

## Equipment and calibration

## Data collection period

Data collection start: unknown; data collection end: unknown.

## Data entry

## Supervision

# Other survey context important for the interpretation of results

## Seasonality (e.g. harvest and malaria)

## Climate conditions (e.g. monsoon, drought, natural catastrophes)

## Epidemics, high mortality

## Security issues, civil unrest

## Population groups not covered (e.g. slums, refugees)

# Summary of survey analysis

## Data processing: Software …..

## Data cleaning:

## Imputations:

# Data quality indicators and assessment

## Flags:

Flags were calculated as follows:...

There were 71 (4.5%) flags for zlen\_flag, 10 (0.6%) flags for zwei\_flag, 190 (12.1%) flags for zbmi\_flag, 155 (10.1%) flags for zwfl\_flag.

## Missing data and missing data by age group and type of residence

Figure 2: Missing data

## Digit heaping charts (with mapping variable labels)

Figure 3: Digit preference for weight & height measurements

## Distribution issues:

Figure 4: Z-score distributions by age group

Figure 5: Z-score distributions by sex

# Appendix: Nutritional status tables

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Group | Weighted N | Unweighted N | -3SD (95% CI) | -2SD (95% CI) | z-score mean (95% CI) | z-score SD |
| All | 1501.0 | 1501 | 17.0 (15.2 - 19.0) | 26.2 (24.1 - 28.5) | -0.71 (-0.83 - -0.59) | 2.31 |
| Age group: 00-05 mo | 118.0 | 118 | 20.3 (14.0 - 28.6) | 32.2 (24.4 - 41.1) | -0.50 (-0.96 - -0.05) | 2.52 |
| Age group: 06-11 mo | 114.0 | 114 | 21.9 (15.3 - 30.5) | 30.7 (22.9 - 39.8) | -0.70 (-1.21 - -0.20) | 2.75 |
| Age group: 12-23 mo | 268.0 | 268 | 19.8 (15.4 - 25.0) | 30.2 (25.0 - 36.0) | -0.79 (-1.07 - -0.51) | 2.37 |
| Age group: 24-35 mo | 303.0 | 303 | 17.5 (13.6 - 22.2) | 28.1 (23.3 - 33.4) | -0.85 (-1.12 - -0.58) | 2.41 |
| Age group: 36-47 mo | 334.0 | 334 | 15.6 (12.1 - 19.9) | 26.0 (21.6 - 31.0) | -0.72 (-0.96 - -0.49) | 2.21 |
| Age group: 48-60 mo | 364.0 | 364 | 13.2 (10.1 - 17.1) | 18.7 (15.0 - 23.0) | -0.59 (-0.79 - -0.38) | 2.01 |
| Sex: Female | 764.0 | 764 | 16.9 (14.4 - 19.7) | 26.3 (23.3 - 29.6) | -0.74 (-0.90 - -0.58) | 2.29 |
| Sex: Male | 737.0 | 737 | 17.1 (14.5 - 20.0) | 26.2 (23.1 - 29.5) | -0.68 (-0.84 - -0.51) | 2.32 |
| Age + sex: 00-05 mo.Female | 58.0 | 58 | 25.9 (16.2 - 38.6) | 39.7 (28.0 - 52.7) | -0.89 (-1.54 - -0.24) | 2.54 |
| Age + sex: 06-11 mo.Female | 45.0 | 45 | 24.4 (14.1 - 39.0) | 31.1 (19.4 - 45.9) | -0.56 (-1.46 - 0.33) | 3.09 |
| Age + sex: 12-23 mo.Female | 135.0 | 135 | 20.0 (14.1 - 27.6) | 31.1 (23.9 - 39.4) | -0.88 (-1.27 - -0.50) | 2.29 |
| Age + sex: 24-35 mo.Female | 157.0 | 157 | 13.4 (8.9 - 19.7) | 24.8 (18.7 - 32.2) | -0.75 (-1.11 - -0.40) | 2.28 |
| Age + sex: 36-47 mo.Female | 173.0 | 173 | 15.0 (10.4 - 21.2) | 26.6 (20.5 - 33.7) | -0.68 (-1.01 - -0.35) | 2.25 |
| Age + sex: 48-60 mo.Female | 196.0 | 196 | 14.8 (10.5 - 20.5) | 18.9 (14.0 - 25.0) | -0.68 (-0.97 - -0.40) | 2.07 |
| Age + sex: 00-05 mo.Male | 60.0 | 60 | 15.0 (8.0 - 26.4) | 25.0 (15.7 - 37.4) | -0.13 (-0.75 - 0.49) | 2.47 |
| Age + sex: 06-11 mo.Male | 69.0 | 69 | 20.3 (12.4 - 31.4) | 30.4 (20.8 - 42.2) | -0.80 (-1.39 - -0.21) | 2.52 |
| Age + sex: 12-23 mo.Male | 133.0 | 133 | 19.5 (13.7 - 27.2) | 29.3 (22.2 - 37.6) | -0.70 (-1.11 - -0.28) | 2.46 |
| Age + sex: 24-35 mo.Male | 146.0 | 146 | 21.9 (15.9 - 29.4) | 31.5 (24.5 - 39.5) | -0.95 (-1.36 - -0.54) | 2.55 |
| Age + sex: 36-47 mo.Male | 161.0 | 161 | 16.1 (11.2 - 22.7) | 25.5 (19.3 - 32.8) | -0.77 (-1.11 - -0.44) | 2.17 |
| Age + sex: 48-60 mo.Male | 168.0 | 168 | 11.3 (7.3 - 17.1) | 18.5 (13.3 - 25.1) | -0.48 (-0.77 - -0.18) | 1.94 |

##### Stunting (Height-for-age)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Group | Weighted N | Unweighted N | -3SD (95% CI) | -2SD (95% CI) | z-score mean (95% CI) | z-score SD |
| All | 1568.0 | 1568 | 3.2 (2.4 - 4.2) | 7.7 (6.5 - 9.1) | 0.19 (0.11 - 0.27) | 1.56 |
| Age group: 00-05 mo | 130.0 | 130 | 6.2 (3.1 - 11.8) | 13.1 (8.3 - 20.0) | -0.30 (-0.58 - -0.02) | 1.65 |
| Age group: 06-11 mo | 130.0 | 130 | 5.4 (2.6 - 10.9) | 11.5 (7.1 - 18.3) | -0.15 (-0.44 - 0.14) | 1.70 |
| Age group: 12-23 mo | 278.0 | 278 | 3.6 (1.9 - 6.6) | 8.6 (5.9 - 12.6) | 0.24 (0.05 - 0.43) | 1.61 |
| Age group: 24-35 mo | 318.0 | 318 | 3.5 (1.9 - 6.1) | 7.2 (4.9 - 10.7) | 0.18 (0.00 - 0.35) | 1.57 |
| Age group: 36-47 mo | 345.0 | 345 | 2.3 (1.2 - 4.6) | 6.4 (4.2 - 9.5) | 0.22 (0.06 - 0.37) | 1.49 |
| Age group: 48-60 mo | 367.0 | 367 | 1.6 (0.7 - 3.6) | 5.4 (3.5 - 8.3) | 0.43 (0.28 - 0.58) | 1.44 |
| Sex: Female | 793.0 | 793 | 2.4 (1.5 - 3.7) | 6.7 (5.1 - 8.6) | 0.23 (0.12 - 0.33) | 1.52 |
| Sex: Male | 775.0 | 775 | 4.0 (2.8 - 5.6) | 8.8 (7.0 - 11.0) | 0.15 (0.04 - 0.26) | 1.60 |
| Age + sex: 00-05 mo.Female | 64.0 | 64 | 1.6 (0.2 - 10.3) | 7.8 (3.3 - 17.4) | -0.06 (-0.43 - 0.30) | 1.50 |
| Age + sex: 06-11 mo.Female | 51.0 | 51 | 3.9 (1.0 - 14.4) | 7.8 (3.0 - 19.1) | 0.24 (-0.24 - 0.72) | 1.77 |
| Age + sex: 12-23 mo.Female | 137.0 | 137 | 2.9 (1.1 - 7.5) | 6.6 (3.5 - 12.2) | 0.26 (0.00 - 0.52) | 1.57 |
| Age + sex: 24-35 mo.Female | 164.0 | 164 | 3.7 (1.7 - 7.9) | 7.3 (4.2 - 12.4) | 0.16 (-0.07 - 0.39) | 1.51 |
| Age + sex: 36-47 mo.Female | 178.0 | 178 | 1.1 (0.3 - 4.4) | 6.2 (3.5 - 10.8) | 0.28 (0.06 - 0.51) | 1.54 |
| Age + sex: 48-60 mo.Female | 199.0 | 199 | 2.0 (0.8 - 5.2) | 6.0 (3.5 - 10.3) | 0.30 (0.10 - 0.49) | 1.40 |
| Age + sex: 00-05 mo.Male | 66.0 | 66 | 10.6 (5.1 - 20.6) | 18.2 (10.6 - 29.4) | -0.53 (-0.96 - -0.11) | 1.77 |
| Age + sex: 06-11 mo.Male | 79.0 | 79 | 6.3 (2.7 - 14.3) | 13.9 (7.9 - 23.4) | -0.41 (-0.76 - -0.05) | 1.61 |
| Age + sex: 12-23 mo.Male | 141.0 | 141 | 4.3 (1.9 - 9.2) | 10.6 (6.5 - 16.9) | 0.22 (-0.06 - 0.49) | 1.66 |
| Age + sex: 24-35 mo.Male | 154.0 | 154 | 3.2 (1.4 - 7.6) | 7.1 (4.0 - 12.4) | 0.19 (-0.06 - 0.45) | 1.64 |
| Age + sex: 36-47 mo.Male | 167.0 | 167 | 3.6 (1.6 - 7.8) | 6.6 (3.7 - 11.5) | 0.15 (-0.07 - 0.36) | 1.43 |
| Age + sex: 48-60 mo.Male | 168.0 | 168 | 1.2 (0.3 - 4.6) | 4.8 (2.4 - 9.2) | 0.59 (0.37 - 0.81) | 1.47 |