Online Supplementary Materials

Supplementary Table 1. Descriptive Statistics

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | 2006 | | | 2012 | | |
| **Variables** | Mean | SD | N | Mean | SD | N |
| **Characteristics, All Children under 5** | | | | | | |
| Male (1=yes) | 0.53 | 0.50 | 386 | 0.46 | 0.50 | 641 |
| Child age in months | 22.49 | 8.74 | 385 | 40.09 | 19.95 | 641 |
| Child is breastfeeding (1=yes) | 0.52 | 0.50 | 388 | 0.18 | 0.38 | 418 |
| Child received Vitamin A capsule in last 6 months (1=yes) | 0.31 | 0.46 | 316 | 0.63 | 0.48 | 333 |
| Diarrhea incidence, past 14 days (1=yes) | 0.40 | 0.49 | 346 | 0.25 | 0.60 | 416 |
| Respiratory infection, past 2 weeks (1=yes) | 0.25 | 0.44 | 346 | 0.16 | 0.37 | 414 |
| Having diarrhea or respiratory infection in past 2 weeks (1=yes) | 0.52 | 0.50 | 346 | 0.33 | 0.47 | 414 |
| **Mother and Household Characteristics** | | | | | | |
| Mother’s years of schooling | 1.33 | 1.79 | 393 | 1.49 | 1.92 | 346 |
| Nutrition promoter? (1=yes) | 0.15 | 0.36 | 381 | 0.17 | 0.37 | 279 |
| Household has access to wage employment (1=yes) | 0.15 | 0.35 | 393 | 0.16 | 0.37 | 342 |
| Head is male (1=yes) | 0.94 | 0.24 | 393 | 0.93 | 0.26 | 342 |
| Age of household head | 35.41 | 9.46 | 324 | 39.14 | 9.02 | 326 |
| Years of schooling, head | 3.10 | 2.40 | 393 | 2.76 | 2.56 | 346 |
| Head speaks Portuguese? (1=yes) | 0.54 | 0.50 | 393 | 0.68 | 0.47 | 339 |
| Household size | 5.85 | 1.82 | 393 | 7.09 | 2.14 | 342 |
| Asset Index (PCA) | -0.50 | 1.57 | 393 | 0.58 | 1.58 | 341 |

**Supplementary Table 2.** (Table 4 in *4*) Effectiveness of an intervention introducing orange sweet potato in rural Mozambique on mean intakes of vitamin A μg RAE, by source: analyses for within-round group comparisons and impact estimates accounted for the complex survey design by clustering at the community level and stratifying by district. Impact estimates represent intention-to-treat effects and were calculated as change in Model 1 or Model 2 group means minus change in control group mean, or change in Model 1 minus change in Model 2 group means (Means (SE)).

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Baseline† | | |  | Follow up† | | |  | Impact estimates‡ | | |
|  | Model 1 | Model 2 | Control |  | Model 1 | Model 2 | Control |  | Model 1 - Control | Model 2 - Control | Model 1 - Model 2 |
| *Vit. A intakes (µg RAE*/*d)* |  |  |  |  |  |  |  |  |  |  |  |
| *Children 6-35 m*  *at baseline* |  |  |  |  |  |  |  |  |  |  |  |
| n | 131 | 126 | 129 |  | 131 | 126 | 129 |  | 262 | 252 | 258 |
| Total | 204.3 (21.6) | 198.8 (31.8) | 187.8 (21.2) |  | 612.9 (43.4)a | 570.7 (57.9)a | 350.2 (67.5)b |  | 253.7 (91.7)\*\* | 216.3 (99.1)\* | 37.5 (92.4) |
| Total- adjusted§ | 223.8 (16.9) | 209.6 (11.7) | 209.6 (4.3) |  | 540.7 (23.1)a | 533.0 (16.6)a | 323.5 (6.1)b |  | 202.1 (36.3)\*\* | 206.8 (26.1)\*\* | -4.7 (43.3) |
| OSP source | 1.7 (1.6) | 4.6 (4.4) | 0.0 (0.0) |  | 478.2 (41.8)a | 417.3 (55.8)a | 188.3 (54.1)b |  | 280.6 (74.0)\*\* | 222.7 (76.6)\*\* | 57.9 (71.7) |
| Non-OSP source | 202.5 (21.9) | 194.2 (29.0) | 187.8 (21.2) |  | 134.7 (10.5) | 153.4 (16.4) | 162.0 (29.0) |  | -26.9 (46.0) | -6.4 (50.2) | -20.5 (44.1) |
| *Children 6-35 m*  *at follow up* |  |  |  |  |  |  |  |  |  |  |  |
| n | - | - | - |  | 98 | 97 | 95 |  | 229 | 223 | 224 |
| Total | - | - | - |  | 430.2 (70.6)a | 380.8 (59.4)a | 170.2 (46.0)b |  | 263.2 (107.8)\* | 191.4 (93.3)\* | 71.7 (108.7) |
| Total – adjusted§ | - | - | - |  | 410.3 (36.5)a | 377.6 (26.4)a | 146.5 (13.3)b |  | 261.4 (48.7)\*\* | 232.3 (30.3)\*\* | 29.1 (51.9) |
| OSP source | - | - | - |  | 359.5 (69.7)a | 273.6 (51.4)a | 73.5 (37.9)b |  | 295.0 (85.7)\*\* | 180.6 (68.2)\*\* | 114.4 (90.6) |
| Non-OSP source | - | - | - |  | 70.7 (9.0) | 107.3 (21.3) | 96.6 (13.9) |  | -31.8 (38.1) | 10.9 (42.9) | -42.7 (38.3) |
| *Women* |  |  |  |  |  |  |  |  |  |  |  |
| n | 134 | 129 | 130 |  | 134 | 129 | 130 |  | 268 | 258 | 260 |
| Total | 504.4 (42.8) | 523.7 (87.6) | 541.3 (70.6) |  | 1053.9 (141.4)a | 1240.2 (141.0)a | 599.2 (115.9)b |  | 491.7 (192.7)\* | 658.6 (194.3)\*\* | -167.0 (215.5) |
| Total – adjusted§ | 463.0 (16.9) | 450.1 (26.9) | 478.3 (24.4) |  | 866.0 (69.2)a | 964.4 (65.0)a | 660.3 (57.9)b |  | 221.0 (96.0)\*\* | 332.4 (89.3)\*\* | -111.3 (98.7) |
| OSP source | 9.6 (8.8) | 9.0 (8.7) | 21.6 (21.0) |  | 861.0 (137.0)a | 967.1 (123.0)a | 294.7 (91.5)b |  | 578.3 (159.4)\*\* | 685.0 (148.9)\*\* | -106.7 (182.4) |
| Non-OSP source | 494.7 (44.2) | 514.6 (83.5) | 519.7 (65.8) |  | 192.9 (30.9) | 273.1 (40.5) | 304.5 (48.9) |  | -86.6 (101.5) | -26.4 (131.2) | -60.2 (117.9) |

RAE, Retinol Activity Equivalents; OSP, Orange sweet potato.

†Tests at baseline and follow up represent pair-wise comparisons of means within survey round. Mean values within a row for each of the baseline or follow up surveys with unlike superscript letters were significantly different (*P* <0.05).

‡Mean values were significantly different from those of the stated comparison groups: \**P*<0.05, \*\**P*<0.01. Tests control for group differences in height-for-age Z score at baseline, and for the presence of volunteer community-level promoters in households included in the survey.

§Mean vitamin A intakes calculated from a distribution corrected for intra-individual variation, based on a second day of dietary recall data in a subset of individuals. All other intakes presented are unadjusted and derived directly from a single day of dietary recall data per individual. Adjusted data were calculated for a subset of the longitudinal cohort of non-breastfed reference children 12-35 months of age at baseline (baseline sample size: Model 1, n=60; Model 2 n=69; Control, n=60; follow up sample size: Model 1, n=63; Model 2, n=58; Control, n=60), a subset of the cross-sectional group of young children 12-35 months of age at follow up (follow up sample size, Model 1, n=55; Model 2, n=56, Control, n=47). The sample size for the longitudinal group of women was the same as presented for unadjusted vitamin A intake data.