Supplementary material

**Table S1**: Negative binomial mixed models of time-varying livestock disease and child feeding in the following month

|  |  |  |
| --- | --- | --- |
|  | **Child three-day feeding frequency, total ASF intake** | |
| **Livestock disease (count)** | **Unadjusted, IRR (95% CI), N=874** | **Adjusted\*, IRR (95% CI), N=758** |
| Any sick livestock† | 0.99 (0.97, 1.01) | 0.99 (0.96, 1.01) |
| Any livestock with digestive disease‡ | 0.91 (0.81, 1.04) | 0.89 (0.78, 1.00) |
| Any livestock with diarrheal disease‡ | 0.89 (0.74, 1.05) | 0.92 (0.77, 1.10) |
| Cattle cases§ | 1.09 (0.96, 1.24) | 1.03 (0.90, 1.19) |
| Sheep cases§ | 0.94 (0.80, 1.11) | 0.93 (0.78, 1.09) |
| Goat cases§ | 0.88 (0.76, 1.03) | 0.89 (0.76, 1.04) |
| Chicken death | 1.02 (0.96, 1.09) | 1.03 (0.96, 1.10) |

\*Adjusted for total livestock owned, household wealth, household income, number of household members, and child age

†Cases of disease or death among cattle, sheep, and goats; Cases of flock death among chickens

‡Among cattle, sheep, and goats

§ Cases of death or disease

**Table S2**: Linear mixed models of livestock and other predictors of dietary diversity at each time point, Asembo, Kenya 2014-2015 (N=758)

|  |  |  |
| --- | --- | --- |
| **Covariate** | Unadjusted (β, 95% CI) | Adjusted (β, 95% CI) |
| Chicken ownership | 0.01 (0.008, 0.02) | **0.015 (0.01, 0.02)** |
| Cow ownership | 0.05 (0.007, 0.09) | 0.01 (-0.02, 0.02) |
| Sheep ownership | -0.01 (-0.03, 0.01) | -0.003 (-0.02, 0.01) |
| Goat ownership | 0.006 (-0.01, 0.02) | 0.003 (-0.02, 0.02) |
| Household wealth score | - | **0.08 (0.04, 0.11)** |
| Average off farm income ($50) | - | **0.03 (0.01, 0.04)** |
| Number of family members | - | **-0.03 (-0.05, -0.01)** |
| Child baseline age, months | - | -0.0004 (-0.002, 0.001) |
| Child sex (female) | - | -0.006 (-0.06, 0.05) |
| Month | - | **-0.02 (-0.02, -0.01)** |
| Report of any livestock disease | - | **-0.008 (-0.02, 0.00)** |