

Supporting Information 5: Full Model Output

Tables S3-S9 show the full model output for the fixed and random effects for each multilevel regression model corresponding to Tables 2-6 in the main text. Note that Variance Partition Components (VPC) for within and between village variances are calculated as the percentage of total variance.

Table S3a				
Multilevel Linear Regressions Predicting Child Anthropometric Status				
		Height for Age Z Score (n = 3411)	Weight for Height Z Score (n = 3426)	Weight for Age Z Score (n = 3507)
<u>Fixed Effects</u>		B coefficient (95% CIs)	B coefficient (95% CIs)	B coefficient (95% CIs)
Ethnicity	Maasai	0.00	0.00	0.00
	Sukuma	0.59*** (0.36 – 0.82)	0.44*** (0.26 – 0.63)	0.72*** (0.55 – 0.89)
	Rangi	0.22 (-0.05 – 0.49)	0.04 (-0.18 – 0.27)	0.27* (0.06 – 0.47)
	Meru	0.92*** (0.60 – 1.25)	0.43** (0.16 – 0.70)	0.87*** (0.62 – 1.12)
	Other	0.32** (0.13 – 0.51)	0.26** (0.10 – 0.41)	0.46*** (0.31 – 0.60)
Livelihood ^a (Maasai only)	Livestock	0.00	0.00	0.00
	Farmer	0.39* (0.06 – 0.71)	0.20 (-0.09 – 0.48)	0.39** (0.13 – 0.65)
Age (months)		-0.08*** (-0.09 – -0.07)	-0.03*** (-0.04 – -0.02)	-0.06*** (-0.07 – -0.05)
Age (months) squared		0.00*** (0.00 – 0.00)	0.00* (0.00 – 0.00)	0.00*** (0.00 – 0.00)
Child Sex	Male	0.00	0.00	0.00
	Female	0.11* (0.02 – 0.21)	0.05 (-0.04 – 0.13)	0.09* (0.02 – 0.17)
Hunger Season	No	0.00	0.00	0.00
	Yes	-0.21* (-0.39 – -0.03)	0.01 (-0.14 – 0.15)	-0.14* (-0.28 – 0.00)
Constant		-1.03*** (-1.27 – -0.78)	0.57*** (0.37 – 0.77)	-0.24* (-0.43 – -0.05)
<u>Random Effects (VPC)</u>				
Village Variance Without Ethnicity		0.17 (4%)	0.09 (5%)	0.15 (10%)
Village Variance With Ethnicity		0.08 (3%)	0.04 (2%)	0.04 (3%)
Child Variance Without Ethnicity		2.11 (93%)	1.57 (95%)	1.32 (90%)
Child Variance With Ethnicity		2.11 (96%)	1.58 (98%)	1.35 (97%)
+ p<0.1, * p<0.05, ** p<0.01, *** p<0.001				
^a Livelihood parameters are derived from separate models including only Maasai households.				

Table S3b Multilevel Linear Regressions Predicting Child Anthropometric Status Including Village Rainfall, Distance to District Capital and Presence of Health Services				
		Height for Age Z Score (n = 3411)	Weight for Height Z Score (n = 3426)	Weight for Age Z Score (n = 3507)
Fixed Effects		B coefficient (95% CIs)	B coefficient (95% CIs)	B coefficient (95% CIs)
Ethnicity	Maasai	0.00	0.00	0.00
	Sukuma	0.40** (0.12 – 0.67)	0.28* (0.06 – 0.49)	0.48*** (0.28 – 0.69)
	Rangi	0.17 (-0.11 – 0.45)	0.05 (-0.18 – 0.27)	0.20+ (0.01 – 0.41)
	Meru	0.66*** (0.30 – 1.03)	0.24 (-0.05 – 0.54)	0.60*** (0.32 – 0.87)
	Other	0.21** (0.00 – 0.43)	0.18* (0.00 – 0.35)	0.32*** (0.16 – 0.48)
Livelihood ^a (Maasai only)	Livestock	0.00	0.00	0.00
	Farmer	0.51** (0.16 – 0.86)	-0.05 (-0.35 – 0.26)	0.31* (0.03 – 0.58)
Age (months)		-0.08*** (-0.09 – -0.07)	-0.03*** (-0.04 – -0.02)	-0.06*** (-0.07 – -0.05)
Age (months) squared		0.00*** (0.00 – 0.00)	0.00* (0.00 – 0.00)	0.00*** (0.00 – 0.00)
Child Sex	Male	0.00	0.00	0.00
	Female	0.11* (0.01 – 0.21)	0.04 (-0.04 – 0.13)	0.09* (0.01 – 0.17)
Hunger Season	No	0.00	0.00	0.00
	Yes	-0.16+ (-0.34 – -0.02)	0.03 (-0.10 – 0.17)	-0.10 (-0.23 – -0.04)
Village Annual Rainfall	Driest Quartile	0.00	0.00	0.00
	Dry Quartile	0.19 (-0.08 – 0.47)	0.21* (0.00 – 0.42)	0.29** (0.08 – 0.49)
	Wet Quartile	0.19 (-0.09 – 0.47)	0.28** (0.07 – 0.49)	0.30** (0.10 – 0.50)
	Wettest Quartile	0.40* (0.09 – 0.71)	0.41** (0.19 – 0.65)	0.52*** (0.29 – 0.74)
Distance to District Capital	Closest Quartile	0.00	0.00	0.00
	Close Quartile	-0.24* (-0.50 – 0.01)	-0.05 (-0.24 – 0.13)	-0.18 (-0.36 – 0.00)
	Far Quartile	0.03 (-0.22 – 0.28)	-0.00 (-0.19 – 0.18)	0.02 (-0.16 – 0.20)
	Furthest Quartile	-0.17 (-0.41 – 0.08)	0.17+ (-0.01 – 0.35)	0.01 (-0.17 – 0.19)
Health Clinic/Dispensary	No	0.00	0.00	0.00
	Yes	0.14 (-0.04 – 0.32)	-0.03 (-0.16 – 0.10)	-0.01 (-0.12 – 0.14)
Constant		-1.13*** (-1.46 – -0.80)	0.39** (0.14 – 0.63)	-0.38** (-0.62 – -0.14)
Random Effects (VPC)				
Village Variance		0.06 (3%)	0.03 (2%)	0.03 (2%)
Child Variance		2.11 (97%)	1.57 (98%)	1.33 (97%)
+ p<0.1, * p<0.05, ** p<0.01, *** p<0.001				
^a Livelihood parameters are derived from separate models including only Maasai households.				

Table S4

Multilevel Logistic Regressions Predicting Subjective Health and Self-Reported Incidence of Specific Illnesses/Symptoms

		Subjective Health (n=3585)	“Has the Child Had X in the Past Three Months?” (n = 2496)					
Fixed Effects		‘Good’ vs. ‘Frequently Sick’	Fever	Diarrhoea	Pneumonia	Cough/Flu	Malaria	Worms
		Adjusted Odds Ratio (95% CI)	Adjusted Odds Ratio (95% CI)	Adjusted Odds Ratio (95% CI)	Adjusted Odds Ratio (95% CI)	Adjusted Odds Ratio (95% CI)	Adjusted Odds Ratio (95% CI)	Adjusted Odds Ratio (95% CI)
Ethnicity	Maasai	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Sukuma	0.58** (0.40 – 0.84)	1.12 (0.82 – 1.52)	1.00 (0.67 – 1.50)	0.48 (0.18 – 1.28)	1.32 (0.94 – 1.87)	1.26 (0.79 – 2.03)	1.37 (0.62 – 3.01)
	Rangi	0.90 (0.58 – 1.38)	0.70 (0.48 – 1.03)	0.93 (0.56 – 1.52)	0.31* (0.10 – 0.96)	1.40 (0.92 – 2.11)	1.77* (1.03 – 3.07)	1.05 (0.41 – 2.71)
	Meru	0.24*** (0.12 – 0.48)	0.48** (0.30 – 0.77)	0.28** (0.13 – 0.60)	0.37 (0.10 – 1.39)	1.17 (0.71 – 1.93)	1.06 (0.54 – 2.05)	3.27* (1.24 – 8.6)
	Other	0.78 (0.57 – 1.06)	0.70* (0.51 – 0.94)	0.76 (0.51 – 1.14)	0.43+ (0.18 – 1.02)	1.05 (0.75 – 1.45)	1.43 (0.91 – 2.27)	1.24 (0.57 – 2.69)
Livelihood ^a (Maasai only)	Livestock	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Farmer	0.71 (0.44 – 1.15)	1.74* (1.04 – 2.91)	0.63 (0.36 – 1.12)	1.00 (0.45 – 2.23)	1.20 (1.45 – 3.21)	1.51 (0.78 – 2.89)	4.91* (1.41 – 17.04)
Age (months)		1.01 (0.99 – 1.03)	1.02** (1.01 – 1.05)	1.02 (0.99 – 1.04)	1.02 (0.97 – 1.07)	1.02* (1.01 – 1.04)	1.05*** (1.03 – 1.07)	1.08** (1.03 – 1.12)
Age (months) squared		1.00 (1.00 – 1.00)	1.00** (0.99 – 1.00)	1.00*** (0.74 – 1.53)	1.00 (1.00 – 1.00)	1.00** (1.00 – 1.00)	1.00*** (1.00 – 1.00)	1.00** (1.00 – 1.00)
Child Sex	Male	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Female	0.99 (0.82 – 1.18)	1.05 (0.90 – 1.24)	0.88 (0.74 – 1.06)	1.26 (0.86 – 1.84)	1.12 (0.95 – 1.31)	1.06 (0.88 – 1.28)	1.21 (0.88 – 1.67)
Hunger Season	No	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Yes	1.03 (0.78 – 1.37)	1.05 (0.85 – 1.30)	1.28 (0.95 – 1.72)	0.94 (0.53 – 1.64)	0.68* (0.53 – 0.86)	0.79 (0.57 – 1.09)	0.82 (0.47 – 1.43)
Constant		0.23*** (0.15 – 0.35)	0.82 (0.57 – 1.18)	0.59* (0.37 – 0.92)	0.05*** (0.02 – 0.17)	0.99 (0.67 – 1.46)	0.14*** (0.08 – 0.23)	0.02*** (0.01 – 0.04)
Random Effects (VPC)								
Village Variance Without Ethnicity		0.22 (6%)	0.09 (3%)	0.15 (4%)	0.52 (14%)	0.04 (1%)	0.15 (4%)	0.39 (11%)
Village Variance With Ethnicity		0.15 (4%)	0.02 (1%)	0.08 (2%)	0.19 (5%)	0.04 (1%)	0.10 (3%)	0.28 (8%)

+ p<0.1, * p<0.05, ** p<0.01, *** p<0.001

^a Livelihood parameters are derived from separate models including only Maasai households.

Table S5 Multilevel Logistic Regression Predicting Household Food Insecurity (n = 2208)		
		Household is Severely Food Insecure
<u>Fixed Effects</u>		Adjusted Odds Ratio (95% CI)
Ethnicity	Maasai	1.00
	Sukuma	0.18*** (0.12 – 0.28)
	Rangi	0.32*** (0.20 – 0.51)
	Meru	0.13*** (0.07 – 0.24)
	Other	0.20*** (0.14 – 0.29)
Livelihood ^a (Maasai only)	Livestock	1.00
	Farmer	0.78 (0.41 – 1.49)
Age (months)		0.99 (0.97 – 1.01)
Age (months) squared		1.00 (1.00 – 1.00)
Child Sex	Male	1.00
	Female	1.01 (0.83 – 1.21)
Hunger Season	No	1.00
	Yes	1.41* (1.04 – 1.92)
Constant		2.44*** (1.57 – 3.79)
<u>Random Effects (VPC)</u>		
Village Variance Without Ethnicity		0.83 (20%)
Village Variance With Ethnicity		0.19 (5%)
+ p<0.1, * p<0.05, ** p<0.01, *** p<0.001		
^a Livelihood parameters are derived from separate models including only Maasai households.		

Table S6
Multilevel Logistic Regressions Predicting Child Consumption of Food Categories in Previous Day (n = 3586)

		Carbohydrates	Beans, Legumes, Peanuts	Leafy Greens	Tomatoes, Carrots, Other Vegetables	Fruit	Milk	Meat	Fish	Eggs
Fixed Effects		Adjusted Odds Ratio (95% CI)	Adjusted Odds Ratio (95% CI)	Adjusted Odds Ratio (95% CI)	Adjusted Odds Ratio (95% CI)	Adjusted Odds Ratio (95% CI)	Adjusted Odds Ratio (95% CI)	Adjusted Odds Ratio (95% CI)	Adjusted Odds Ratio (95% CI)	Adjusted Odds Ratio (95% CI)
Ethnicity	Maasai	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Sukuma	2.97*** (1.65 – 5.36)	2.61*** (1.64 – 4.18)	4.24*** (2.66 – 6.81)	1.43 (0.82 – 2.51)	1.19 (0.64 – 2.21)	0.23*** (0.15 – 0.35)	1.98* (1.09 – 3.59)	5.48** (2.10 – 14.32)	1.93+ (0.93 – 4.00)
	Rangi	5.92*** (2.69 – 13.05)	1.82* (1.06 – 3.11)	4.18*** (2.52 – 6.92)	0.78 (0.40 – 1.51)	2.42** (1.25 – 4.69)	0.44*** (0.28 – 0.67)	1.34 (0.72 – 2.50)	6.22*** (2.28 – 16.97)	0.49 (0.15 – 1.59)
	Meru	4.98** (2.01 – 12.34)	3.87*** (2.12 – 7.02)	3.00*** (1.61 – 5.58)	1.71 (0.86 – 3.40)	2.59** (1.31 – 5.13)	0.51* (0.30 – 0.87)	1.48 (0.71 – 3.13)	7.84** (2.42 – 25.36)	2.32+ (0.97 – 5.56)
	Other	2.96*** (1.79 – 4.88)	1.92*** (1.33 – 2.76)	3.78*** (2.61 – 5.48)	1.09 (1.06 – 1.12)	1.75* (1.11 – 2.76)	0.45*** (0.33 – 0.62)	1.91** (1.21 – 3.02)	7.06*** (3.01 – 16.57)	1.49 (0.83 – 2.70)
Livelihood ^a (Maasai only)	Livestock	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Farmer	1.76+ (0.99 – 3.13)	1.23 (0.68 – 2.21)	3.11*** (1.72 – 5.61)	1.82+ (0.97 – 3.40)	2.95** (1.44 – 6.02)	0.69 (0.43 – 1.11)	1.46 (0.82 – 2.59)	0.83 (0.18 – 3.85)	2.40+ (0.95 – 6.07)
Age (months)		1.38*** (1.34 – 1.42)	1.12*** (1.09 – 1.14)	1.16*** (1.14 – 1.18)	1.09*** (1.07 – 1.12)	1.09*** (1.06 – 1.11)	0.99 (0.97 – 1.00)	1.14*** (1.11 – 1.17)	1.13*** (1.10 – 1.16)	1.05** (1.02 – 1.08)
Age (months) squared		1.00*** (1.00 – 1.00)	1.00*** (1.00 – 1.00)	1.00*** (1.00 – 1.00)	1.00*** (1.00 – 1.00)	1.00*** (1.00 – 1.00)	1.00 (1.00 – 1.00)	1.00*** (1.00 – 1.00)	1.00*** (1.00 – 1.00)	1.00** (1.00 – 1.00)
Child Sex	Male	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Female	0.91 (0.71 – 1.18)	0.86 (0.72 – 1.01)	0.92 (0.79 – 1.07)	1.06 (0.88 – 1.28)	1.11 (0.91 – 1.35)	1.07 (0.92 – 1.23)	1.08 (0.91 – 1.28)	1.05 (0.85 – 1.29)	1.03 (0.78 – 1.36)
Hunger Season	No	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Yes	1.07 (0.66 – 1.72)	1.02 (0.68 – 1.53)	1.42 (0.90 – 2.23)	0.83 (0.47 – 1.47)	1.06 (0.56 – 2.01)	0.47*** (0.33 – 0.67)	1.23 (0.69 – 2.20)	1.16 (0.47 – 2.84)	1.52 (0.80 – 2.88)
Constant		0.07*** (0.04 – 0.13)	0.03*** (0.16 – 0.47)	0.02*** (0.01 – 0.37)	0.03*** (0.02 – 0.07)	0.03*** (0.02 – 0.06)	4.64*** (3.06 – 7.04)	0.02*** (0.01 – 0.04)	0.00*** (0.00 – 0.01)	0.02*** (0.01 – 0.04)
Random Effects (VPC)										
Village Variance Without Ethnicity 0.83 (20%)		0.96 (23%)	0.59 (15%)	1.07 (25%)	1.04 (24%)	1.42 (30%)	0.71 (18%)	1.31 (28%)	3.18 (49%)	1.32 (29%)
Village Variance With Ethnicity 0.19 (5%)		0.51 (13%)	0.46 (12%)	0.62 (16%)	0.95 (22%)	1.23 (27%)	0.34 (9%)	1.05 (24%)	2.42 (42%)	0.96 (23%)

+ p<0.1, * p<0.05, ** p<0.01, *** p<0.001

^a Livelihood parameters are derived from separate models including only Maasai households.

Table S7 Multilevel Logistic Regressions Predicting Breastfeeding Behaviour				
		Child Had Colostrums (n = 3530)	Currently Breastfeeding (n = 3195)	Currently Eating Solids (n = 3586)
Fixed Effects		Adjusted Odds Ratio (95% CI)	Adjusted Odds Ratio (95% CI)	Adjusted Odds Ratio (95% CI)
Ethnicity	Maasai	1.00	1.00	1.00
	Sukuma	0.22*** (0.10 – 0.48)	0.15*** (0.09 – 0.25)	1.76 (0.81 – 3.85)
	Rangi	0.73 (0.27 – 1.99)	0.27*** (0.14 – 0.51)	2.07 (0.78 – 5.47)
	Meru	2.53 (0.49 – 13.11)	0.41* (0.20 – 0.84)	0.77 (0.26 – 2.25)
	Other	0.58 (0.28 – 1.22)	0.27*** (0.18 – 0.41)	1.45 (0.78 – 2.69)
Livelihood ^a (Maasai only)	Livestock	1.00	1.00	1.00
	Farmer	0.50 (0.14 – 1.70)	0.77 (0.46 – 1.30)	1.43 (0.70 – 2.92)
Age (months)		0.99 (0.95 – 1.03)	0.73*** (0.69 – 0.77)	1.45*** (1.38 – 1.50)
Age (months) squared		1.00 (1.00 – 1.00)	1.00*** (1.00 – 1.00)	1.00*** (0.86 – 1.00)
Child Sex	Male	1.00	1.00	1.00
	Female	1.12 (0.81 – 1.54)	1.01 (0.79 – 1.29)	1.14 (0.86 – 1.54)
Hunger Season	No	1.00	1.00	1.00
	Yes	1.38 (0.77 – 2.47)	1.42+ (0.97 – 2.08)	0.36** (0.18 – 0.70)
Constant		49.19 (21.04 – 115.01)	928.61*** (396.68 – 2173.89)	0.19*** (0.09 – 0.40)
Village Variance Without Ethnicity		0.95 (22%)	0.71 (18%)	1.46 (31%)
Village Variance With Ethnicity		0.48 (13%)	0.26 (7%)	1.17 (26%)
+ p<0.1, * p<0.05, ** p<0.01, *** p<0.001				
^a Livelihood parameters are derived from separate models including only Maasai households.				

Table S8
Multilevel Logistic Regressions Predicting Vaccination Coverage and Vitamin A Supplementation (n = 3586)

		BCG Vaccination	Polio Vaccination	DPT Vaccination	Measles Vaccination	Vitamin A Supplementation
<u>Fixed Effects</u>		Adjusted Odds Ratio (95% CI)	Adjusted Odds Ratio (95% CI)	Adjusted Odds Ratio (95% CI)	Adjusted Odds Ratio (95% CI)	Adjusted Odds Ratio (95% CI)
Ethnicity	Maasai	1.00	1.00	1.00	1.00	1.00
	Sukuma	1.38 (0.64 -2.99)	1.49 (0.73 – 3.03)	1.34 (0.70 – 2.62)	0.84 (0.50 – 1.40)	0.75 (0.44 -1.25)
	Rangi	1.94 (0.68 – 5.54)	2.54 (0.94 – 6.89)	2.56* (1.03 – 6.35)	2.02* (1.08 – 3.80)	1.03 (0.58 – 1.83)
	Meru	2.01 (0.49 – 8.27)	4.50* (1.07 – 18.81)	1.93 (0.69 – 5.32)	2.66* (1.22 – 5.83)	2.43* (1.15 – 5.13)
	Other	1.25 (0.66 – 2.37)	1.43 (0.79 – 2.59)	1.49 (0.87 – 2.56)	1.58* (1.03 – 2.41)	1.26 (0.84 – 1.90)
Livelihood ^a (Maasai only)	Livestock	1.00	1.00	1.00	1.00	1.00
	Farmer	0.50 (0.22 – 1.15)	0.85 (0.39 – 1.86)	0.76 (0.36 – 1.62)	1.17 (0.66 – 2.07)	1.24 (0.68 – 2.26)
Age (months)		1.24*** (1.19 – 1.28)	1.22* (1.18 – 1.27)	1.26*** (1.22 – 1.30)	1.38*** (1.34 – 1.42)	1.22*** (1.20 – 1.25)
Age (months) squared		1.00*** (1.00 –1.00)	1.00*** (1.00 – 1.00)	1.00*** (1.00 –1.00)	1.00*** (1.00 – 1.00)	1.00*** (1.00 –1.00)
Child Sex	Male	1.00	1.00	1.00	1.00	1.00
	Female	1.10 (0.79 – 1.54)	1.04 ns (0.75 – 1.46)	0.97 (0.72 – 1.31)	1.02 (0.82 – 1.26)	1.13 (0.94 – 1.36)
Hunger Season	No	1.00	1.00	1.00	1.00	1.00
	Yes	0.58+ (0.30 – 1.10)	0.80 (0.46 – 1.40)	0.86 (0.53 – 1.40)	0.98 (0.64 – 1.48)	0.91 (0.58 – 1.44)
Constant		3.12** (1.46 – 6.64)	2.02** (1.12 – 4.36)	1.32 (0.71 – 2.43)	0.04*** (0.02 – 0.07)	0.17*** (0.10 – 0.28)
<u>Random Effects (VPC)</u>						
Village Variance Without Ethnicity		0.81 (20%)	0.50 (13%)	0.38 (10%)	0.55 (14%)	0.79 (19%)
Village Variance With Ethnicity		0.85 (20%)	0.54 (14%)	0.40 (10%)	0.42 (11%)	0.58 (15%)

+ p<0.1, * p<0.05, ** p<0.01, *** p<0.001

^a Livelihood parameters are derived from separate models including only Maasai households.

Table S9
Multilevel Logistic Regressions Predicting Subjective Health and Self-Reported Incidence of Specific Illnesses/Symptoms

		“Has the Child Ever Had X?”											
Fixed Effects		Fever (n = 3586)		Diarrhoea (n = 3586)		Cough/Flu ^b (n = 2789)		Pneumonia (n = 3586)		Malaria ^b (n = 2789)		Worms ^b (n = 2496)	
		%	Adjusted Odds Ratio (95% CI)	%	Adjusted Odds Ratio (95% CI)	%	Adjusted Odds Ratio (95% CI)	%	Adjusted Odds Ratio (95% CI)	%	Adjusted Odds Ratio (95% CI)	%	Adjusted Odds Ratio (95% CI)
Ethnicity	Maasai	89	1.00	70	1.00	89	1.00	29	1.00	54	1.00	15	1.00
	Sukuma	91	1.42 (0.86 – 2.35)	76	1.56* (1.13 – 2.17)	93	2.14** (1.32 – 3.43)	17	0.85 (0.53 – 1.37)	71	1.58+ (0.94 – 2.65)	24	1.36 (0.78 – 2.39)
	Rangi	91	1.17 (0.63 – 2.20)	75	1.31 (0.87 – 1.97)	93	1.76+ (0.95 – 3.26)	17	0.78 (0.45 – 1.33)	77	2.08* (1.15 – 3.77)	25	0.97 (0.48 – 1.94)
	Meru	87	0.64 (0.32 – 1.27)	61	0.72 (0.46 – 1.14)	90	1.10 (0.51 – 2.39)	29	1.18 (0.66 – 2.10)	60	1.03 (0.53 – 2.05)	35	2.08* (1.01 – 4.30)
	Other	89	0.99 (0.64 – 1.52)	75	1.39* (1.05 – 1.83)	91	1.48+ (0.94 – 2.35)	18	0.86 (0.59 – 1.25)	71	1.67* (1.07 – 2.60)	25	1.20 (0.69 – 2.08)
Livelihood ^a (Maasai only)	Livestock	89	1.00	71	1.00	87	1.00	28	1.00	52	1.00	8	1.00
	Farmer	91	1.06 (0.54 – 2.11)	66	0.81 (0.53 – 1.22)	92	1.53 (0.67 – 3.50)	34	1.26 (0.83 – 1.90)	57	1.79 (0.84 – 3.80)	22	3.55** (1.69 – 7.47)
Age (months)		1.24*** (1.20 – 1.27)		1.14*** (1.12 – 1.16)		1.16*** (1.13 – 1.20)		1.06*** (1.04 – 1.08)		1.16*** (1.14 – 1.19)		1.10*** (1.08 – 1.14)	
Age (months) squared		1.00*** (1.00 – 1.00)		1.00*** (1.00 – 1.00)		1.00*** (1.00 – 1.00)		1.00*** (1.00 – 1.00)		1.00*** (1.00 – 1.00)		1.00*** (1.00 – 1.00)	
Child Sex	Male	1.00		1.00		1.00		1.00		1.00		1.00	
	Female	0.73** (0.57 – 0.93)		0.90 (0.77 – 1.05)		0.90 (0.68 – 1.19)		0.93 (0.79 – 1.11)		0.85+ (0.71 – 1.02)		1.22* (1.01 – 1.49)	
Hunger Season	No	1.00		1.00		1.00		1.00		1.00		1.00	
	Yes	1.15 (0.79 – 1.68)		1.17 (0.91 – 1.51)		0.77 (0.54 – 1.08)		1.00 (0.68 – 1.45)		0.90 (0.56 – 1.44)		0.85 (0.56 – 1.30)	
Constant		0.83 (0.51 – 1.35)		0.47 (0.33 – 0.66)		1.35 (0.82 – 2.21)		0.10*** (0.06 – 0.17)		0.19*** (0.12 – 0.32)		0.04*** (0.02 – 0.08)	
Random Effects (VPC)													
Village Variance Without Ethnicity		0.31 (9%)		0.18 (5%)		0.14 (4%)		0.43 (12%)		0.52 (14%)		0.25 (8%)	
Village Variance With Ethnicity		0.25 (7%)		0.12 (4%)		0.07 (2%)		0.37 (10%)		0.41 (11%)		0.23 (7%)	

+ p<0.1, * p<0.05, ** p<0.01, *** p<0.001

^a Livelihood parameters are derived from separate models including only Maasai households.

^b Survey revisions during the project led to the question “Has the Child Ever Had Cough/Flu?” and “Has the Child Ever Had Malaria?” only being asked in villages 15-56, while the question “Has the Child Ever Had Worms?” was only asked in villages 20-56, leading to lower sample sizes for these comparisons.