

Supplemental Materials

Table S1. Association of infant length and length trajectory with food insecurity and water insecurity

	M1-M18 (n=714)		M6-M18 (n=710)	
Models	MAM	FAM	MAN	FAM
Length (cm)				
Food Insecurity				
Poor Food Access	-0.16 (-0.41, 0.1)	-0.13 (-0.36, 0.1)	-0.13 (-0.39, 0.12)	-0.13 (-0.36, 0.11)
Household Shocks	-0.1 (-0.35, 0.15)	-0.05 (-0.29, 0.18)	0.13 (-0.12, 0.38)	0.17 (-0.07, 0.4)
Low Food availability & Quality	-0.24 (-0.49, 0.02)	-0.26 (-0.50, -0.02)	0.05 (-0.2, 0.31)	0.05 (-0.19, 0.29)
Water Insecurity				
Poor Water Access	-0.13 (-0.38, 0.12)	-0.11 (-0.34, 0.12)	-0.1 (-0.35, 0.16)	-0.12 (-0.35, 0.12)
Poor Water Quality	0.02 (-0.22, 0.26)	-0.05 (-0.28, 0.17)	-0.06 (-0.3, 0.18)	-0.12 (-0.35, 0.1)
Low Water Reliability	-0.05 (-0.3, 0.21)	-0.07 (-0.3, 0.16)	0.01 (-0.25, 0.26)	-0.03 (-0.26, 0.21)
Length change (cm)				
Time	1.29 (1.27, 1.32)	0.36 (-0.11, 0.83)	0.93 (0.91, 0.96)	0.19 (-0.31, 0.7)
Time x Food Insecurity				
Poor Food Access	0 (-0.02, 0.02)	0 (-0.02, 0.02)	0 (-0.02, 0.02)	0 (-0.03, 0.02)
Household Shocks	0.02 (0, 0.04)	0.02 (0, 0.04)	0 (-0.02, 0.02)	0 (-0.02, 0.02)
Low Food availability & Quality	0 (-0.02, 0.02)	0 (-0.02, 0.02)	-0.03 (-0.05, -0.01)	-0.02 (-0.04, 0)
Time x Water Insecurity				
Poor Water Access	0.01 (-0.01, 0.03)	0 (-0.01, 0.02)	0.01 (-0.01, 0.03)	0.01 (-0.01, 0.03)
Poor Water Quality	0.01 (-0.01, 0.03)	0.01 (-0.01, 0.03)	0.02 (0, 0.04)	0.02 (0, 0.04)
Low Water Reliability	0 (-0.02, 0.02)	0.01 (-0.01, 0.02)	0 (-0.02, 0.02)	0 (-0.02, 0.03)

MAM=Minimally-adjusted model: season at baseline interview (calendar quarter), SES (tertile), infant sex (female vs. male), household location (Chirumanzu vs. Shurugwi), improved latrine (no vs. yes), and maternal pregnancy HIV status (positive vs. negative), time-sex interaction.

FAM=Fully-adjusted model: MAM + maternal age (years), height (cm), education (some primary, some secondary, completed secondary), religion (Apostolic, Other Christian, Other religion), infant birthweight (kg), preterm (born at <37 weeks of gestation: yes vs. no), household size (number of members), continued breastfeeding until M18 (yes vs. no), and time interactions with maternal height, infant birthweight and continued breastfeeding until M18.

Table S2. Association of infant LAZ and LAZ trajectory with food insecurity and water insecurity weighted for missingness

Models	M1-M18		M6-M18	
	MAM	FAM	MAN	FAM
LAZ				
Food Insecurity				
Poor Food Access	-0.05 [-0.15, 0.05]	-0.03 [-0.1, 0.05]	-0.13 [-0.22, -0.03]	-0.11 [-0.2, -0.03]
Household Shocks	-0.02 [-0.12, 0.07]	-0.02 [-0.09, 0.06]	-0.01 [-0.1, 0.08]	0 [-0.08, 0.09]
Low Food availability & Quality	-0.09 [-0.19, 0.01]	-0.09 [-0.17, -0.01]	-0.08 [-0.18, 0.02]	-0.06 [-0.14, 0.03]
Water Insecurity				
Poor Water Access	-0.01 [-0.11, 0.08]	0 [-0.08, 0.07]	-0.02 [-0.12, 0.08]	-0.02 [-0.1, 0.07]
Poor Water Quality	0.04 [-0.05, 0.14]	0 [-0.08, 0.07]	0.08 [-0.01, 0.17]	0.04 [-0.04, 0.12]
Low Water Reliability	0.05 [-0.04, 0.15]	0.03 [-0.05, 0.1]	0.05 [-0.04, 0.14]	0.03 [-0.05, 0.12]
LAZ Trajectory				
Time	-0.03 [-0.04, -0.03]	-0.21 [-0.33, -0.09]	-0.04 [-0.06, -0.03]	-0.13 [-0.28, 0.03]
Time x Food Insecurity				
Poor Food Access	0 [-0.01, 0]	0 [-0.01, 0]	0 [0, 0.01]	0 [0, 0.01]
Household Shocks	0 [0, 0.01]	0 [0, 0.01]	0 [0, 0.01]	0 [0, 0.01]
Low Food availability & Quality	0 [-0.01, 0]	0 [-0.01, 0]	0 [-0.01, 0]	0 [-0.01, 0]
Time x Water Insecurity				
Poor Water Access	0 [-0.01, 0]	0 [-0.01, 0]	0 [-0.01, 0.01]	0 [-0.01, 0]
Poor Water Quality	0 [0, 0.01]	0 [0, 0.01]	0 [-0.01, 0.01]	0 [-0.01, 0.01]
Low Water Reliability	0 [-0.01, 0]	0 [-0.01, 0]	0 [-0.01, 0]	0 [-0.01, 0]

MAM=Minimally-adjusted model: season at baseline interview (calendar quarter), SES (tertile), infant sex (female vs. male), household location (Chirumanzu vs. Shurugwi), improved latrine (no vs. yes), and maternal pregnancy HIV status (positive vs. negative), time-sex interaction.

FAM=Fully-adjusted model: MAM + maternal age (years), height (cm), education (some primary, some secondary, completed secondary), religion (Apostolic, Other Christian, Other religion), infant birthweight (kg), preterm (born at <37 weeks of gestation: yes vs. no), household size (number of members), continued breastfeeding until M18 (yes vs. no), and time interactions with maternal height, infant birthweight and continued breastfeeding until M18.