

**Supplemental Table 1: Bivariate associations with child enteric pathogen carriage and child self-reported diarrhea in past 7 days**

	Positive for enteric pathogen (PR) (95% CI)	Self-reported diarrhea (PR) (95% CI)
<b>Sociodemographic characteristics</b>		
Age of child ( <i>ref: 0-2 years</i> )		
2-5 years	0.94 (0.69, 1.29)	0.34** (0.17, 0.70)
Sex of child ( <i>ref: male</i> )	0.90 (0.67, 1.21)	1.37 (0.67, 2.80)
Age of primary caretaker ( <i>ref: 18-35 years</i> )		
36-55 years	0.80 (0.53, 1.20)	0.55 (0.20, 1.54)
> 55 years	0.87 (0.42, 1.81)	0.61 (0.09, 4.25)
Education of primary caretaker ( <i>ref: primary</i> )		
Pre-secondary education	0.76 (0.56, 1.02)	1.14 (0.56, 2.30)
Secondary or higher	0.41* (0.19, 0.87)	0.31 (0.04, 2.34)
Household wealth index ( <i>ref: first tercile</i> )		
Second tercile	0.96 (0.68, 1.35)	1.65 (0.75, 3.62)
Third tercile	0.76 (0.52, 1.11)	0.88 (0.35, 2.23)
Household size ( <i>ref: small</i> )		
Medium (4-6 people)	1.08 (0.76, 1.53)	2.04 (0.79, 5.25)
Large (> 7 people)	1.16 (0.68, 1.97)	2.40 (0.68, 8.43)
<b>Additional variables</b>		
Works in food-animal production	0.71 (0.23, 1.53)	3.18** (1.34, 7.52)
Neighborhood ( <i>ref: El Centro, urban</i> )		
Oton de Velez (semi-rural)	2.44*** (1.63, 3.63)	4.54*** (1.97, 10.5)
Chinangachi (semi-rural)	2.29*** (1.52, 3.43)	1.02 (0.31, 3.37)
San Vicente (semi-rural)	1.11 (0.61, 2.05)	0.45 (0.06, 3.53)
El Tejar (semi-rural)	0.85 (0.42, 1.72)	0.89 (0.19, 4.14)

Notes: table displays point estimates and 95% confidence intervals for the bivariate association between each outcome and potential confounding variable. \*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

**Supplemental Table 2: Domestic animal exposures and child enteric pathogen carriage, regression coefficients from adjusted models**

	Model 1 PR (95% CI)	Model 2 PR (95% CI)	Model 3 PR (95% CI)	Model 4 PR (95% CI)	Model 5 PR (95% CI)	Model 6 PR (95% CI)	Model 7 PR (95% CI)
<i>Main exposures</i>							
Any animals present in/around home	0.99 (0.69, 1.43)						
At least one sub-exposure		1.06 (0.68, 1.66)					
Multiple sub-exposures			1.07 (0.78, 1.47)				
<i>Sub-exposures</i>							
Child regularly interacts with animals				1.56* (1.00, 2.42)			
Animals defecate in common areas					1.11 (0.69, 1.78)		
No handwashing after contact						0.11* 0.02, 0.69)	
Consumption of home-raised animal products							1.14 (0.83, 1.58)
<i>Caretaker education (ref: primary)</i>							
Pre-secondary education	0.83 (0.62, 1.10)	0.73 (0.52, 1.07)	0.73 (0.52, 1.02)	0.73 (0.53, 1.02)	0.73 (0.52, 1.02)	0.72 (0.51, 1.01)	0.73 (0.52, 1.01)
Secondary or higher	0.56 (0.26, 1.21)	0.39 (0.11, 1.36)	0.39 (0.11, 1.34)	0.41 (0.11, 1.50)	0.38 (0.11, 1.30)	0.45 (0.13, 1.51)	0.39 (0.11, 1.37)
<i>Wealth tertile (ref: first tertile)</i>							
Second	0.56 (0.26, 1.21)	0.56 (0.26, 1.21)	0.56 (0.26, 1.21)	0.56 (0.26, 1.21)	0.56 (0.26, 1.21)	0.56 (0.26, 1.21)	0.56 (0.26, 1.21)
Third (most wealthy)	0.56 (0.26, 1.21)	0.56 (0.26, 1.21)	0.56 (0.26, 1.21)	0.56 (0.26, 1.21)	0.56 (0.26, 1.21)	0.56 (0.26, 1.21)	0.56 (0.26, 1.21)
<i>Neighborhood (ref: El Centro, urban)</i>							
Oton de Velez (semi-rural)	2.35*** (1.45, 3.81)	1.72 (0.92, 3.22)	1.70 (0.90, 3.21)	1.83 (1.00, 3.36)	1.71 (0.90, 3.22)	2.13* (1.05, 4.32)	1.66 (0.88, 3.14)
Chinangachi (semi-rural)	2.29*** (1.45, 3.63)	1.96* (1.04, 3.68)	1.94* (1.02, 3.67)	2.03* (1.09, 3.79)	1.96* (1.04, 3.68)	1.97 (0.94, 4.11)	1.88 (0.98, 3.58)
San Vicente (semi-rural)	1.22 (0.66, 2.27)	0.43 (0.13, 1.41)	0.43 (0.13, 1.42)	0.45 (0.14, 1.46)	0.43 (0.13, 1.42)	0.39 (0.09, 1.71)	0.43 (0.13, 1.41)
El Tejar (semi-rural)	0.86 (0.42, 1.78)	0.71 (0.28, 1.81)	0.71 (0.28, 1.83)	0.74 (0.29, 1.89)	0.70 (0.27, 1.82)	0.72 (0.26, 1.96)	0.71 (0.28, 1.84)
<i>Observations</i>	300	168	168	168	168	168	151

Notes: Each column presents estimated coefficients for the regression of child pathogen carriage on each main- or sub-exposure variable individually, controlling for the educational attainment of the primary caretaker and neighborhood. \*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

**Supplemental Table 3: Domestic animal exposures and child self-reported diarrhea, regression coefficients from adjusted models**

	Model 1 PR (95% CI)	Model 2 PR (95% CI)	Model 3 PR (95% CI)	Model 4 PR (95% CI)	Model 5 PR (95% CI)	Model 6 PR (95% CI)	Model 7 PR (95% CI)
<i>Main exposures</i>							
Any animals present in/around home	2.41 (0.64, 9.07)						
At least one sub-exposure		1.79 (0.50, 6.35)					
Multiple sub-exposures			1.73 (0.81, 3.70)				
<i>Sub-exposures</i>							
Child regularly interacts with animals				2.27 (0.91, 5.67)			
Animals defecate in common areas					0.81 (0.24, 2.70)		
No handwashing after contact						0.70 (0.19, 2.61)	
Consumption of home-raised animal products							1.62 (0.77, 3.39)
<i>Age of child (ref: 0-2 years)</i>							
2-5 years	0.38** (0.18, 0.79)	0.38* (0.18, 0.80)	0.36** (0.17, 0.74)	0.32** (0.16, 0.66)	0.40* (0.19, 0.85)	0.34* (0.14, 0.83)	0.37* (0.18, 0.79)
Family member works in food-animal production	1.95 (0.88, 4.33)	2.43* (1.01, 5.85)	2.50* (1.05, 5.92)	2.61* (1.09, 6.25)	2.51* (1.02, 6.20)	2.82* (1.14, 7.00)	2.32 (0.99, 5.41)
<i>Neighborhood (ref: El Centro, urban)</i>							
Oton de Velez (semi-rural)	2.07 (0.57, 7.53)	0.98 (0.40, 2.41)	0.85 (0.33, 2.17)	1.05 (0.45, 2.46)	1.01 (0.41, 2.50)	0.96 (0.35, 2.62)	0.91 (0.36, 2.31)
Chinangachi (semi-rural)	0.81 (0.19, 3.35)	0.51 (0.15, 5.72)	0.45 (0.13, 1.61)	0.52 (0.15, 1.73)	0.50 (0.15, 1.72)	0.62 (0.18, 2.20)	0.44 (0.13, 1.53)
San Vicente (semi-rural)	0.26 (0.02, 2.85)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)
El Tejar (semi-rural)	0.62 (0.09, 4.05)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)
<i>Observations</i>	287	159	159	159	159	159	140

Notes: Each column presents estimated coefficients for the regression of child self-reported diarrhea on each main- or sub-exposure variable individually, controlling for age of child, presence of family member in food-animal production, and neighborhood. \*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$