

Supplemental Table 1
The number of patients and controls from the two parental studies

	Total	Rwanda	Zanzibar
Patients	994	829	165
Healthy controls	324	159	165
One pathogen detected			
Patients	26%	28%	18%
Healthy controls	25%	22%	27%
Two or more pathogens detected			
Patients	65%	63%	76%
Healthy controls	58%	57%	60%
Mean age (month)			
Patients	13.5	14.3	12.0
Healthy control	23.8	23.6	24.0

Supplemental Table 2
Enteric coinfections in healthy controls and patients

	Adenovirus	Astrovirus	NoV GI	NoV GII	Rotavirus	Sapovirus	Cryptosporidium	Campylobacter	ETEC-eitB	ETEC-estA	EPEC-bfpA	EPEC-eae	Salmonella	Shigella
Healthy controls (n = 324)	n = 120	n = 4	n = 13	n = 11	n = 6	n = 25	n = 84	n = 23	n = 130	n = 55	n = 13	n = 47	n = 21	n = 72
Adenovirus		2; 1.71; 0.63	10; 6.10; 0.0056	4; 0.97; 1.0	2; 0.85; 1.0	16; 3.34; 0.0049	35; 1.30; 0.36	10; 1.34; 0.51	56; 1.54; 0.079	25; 1.53; 0.17	9; 3.41; 0.075	29; 3.14; 0.0015	8; 1.05; 1.0	32; 1.49; 0.17
Astrovirus	n = 4		1; 8.56; 0.15	0; 0; 1.0	1; 21; 0.072	1; 4.11; 0.28	2; 2.90; 0.28	0; 0; 1.0	2; 1.50; 1.0	0; 0; 0.59	0; 0; 1.0	1; 1.20; 1.0	1; 5.00; 0.24	1; 1.17; 1.0
NoV GI	n = 13				0; 0; 1.0	1; 1.00; 1.0	4; 1.28; 0.75	0; 0; 0.61	8; 2.48; 0.15	2; 0.89; 1.0	3; 4.57; 0.061	4; 1.21; 0.75	1; 1.21; 0.59	1; 0.28; 0.31
NoV GII	n = 11					1; 1.20; 0.59	2; 0.63; 0.74	0; 0; 1.0	4; 0.84; 1.0	2; 1.09; 1.0	0; 0; 1.0	0; 0; 0.11	0; 0; 1.0	3; 1.34; 0.72
Rotavirus	n = 6					0; 0; 1.0	0; 0; 0.34	0; 0; 1.0	3; 1.50; 0.69	1; 0.98; 1.0	0; 0; 1.0	0; 0; 0.56	0; 0; 1.0	1; 0.70; 1.0
Sapovirus	n = 25						6; 0.91; 1.0	0; 0; 0.24	16; 2.93; 0.018	10; 3.81; 0.0035	2; 1.51; 0.64	8; 2.15; 0.17	3; 2.15; 0.21	6; 1.13; 0.80
Cryptosporidium	n = 84							7; 1.21; 0.64	38; 1.36; 0.25	15; 1.10; 0.74	1; 0.34; 0.47	11; 1.54; 0.37	3; 0.46; 0.30	27; 2.08; 0.014
Campylobacter	n = 23								9; 0.90; 1.0	3; 0.69; 0.78	1; 2.4; 0.40	1; 0.48; 0.67	1; 0.62; 1.0	5; 0.93; 1.0
ETEC-eitB	n = 130										41; 6.02; <0.0001	5; 1.28; 0.76	22; 2.28; 0.027	11; 1.73; 0.26
ETEC-estA	n = 55												6; 1.54; 0.56	1; 0.23; 0.22
EPEC-bfpA (n = 159)	n = 13													
EPEC-eae (n = 159)	n = 47													
Salmonella	n = 21													
Shigella	n = 72													
Patients (n = 994)	n = 235	n = 35	n = 18	n = 109	n = 295	n = 47	n = 193	n = 118	n = 327	n = 192	n = 125	n = 214	n = 67	n = 209
Adenovirus		8; 0.84; 0.83												
Astrovirus	n = 35													
NoV GI	n = 18		5; 1.51; 0.53	1; 1.63; 0.48										
NoV GII	n = 109		30; 1.17; 0.53	4; 1.05; 0.79	1; 0.47; 0.71									
Rotavirus	n = 295	70; 0.93; 0.72	10; 0.95; 1.0	6; 1.19; 0.80	9; 0.19; <0.0001									
Sapovirus	n = 47	14; 1.28; 0.58	3; 1.95; 0.23	0; 0; 1.0	1; 0.17; 0.852	9; 0.55; 0.14								
Cryptosporidium	n = 193	44; 0.94; 0.84	8; 1.24; 0.66	3; 0.82; 1.0	18; 0.80; 0.52	51; 0.82; 0.29	14; 1.82; 0.087							
Campylobacter	n = 118	20; 0.76; 0.42	5; 1.25; 0.60	0; 0; 0.15	10; 0.73; 0.43	15; 0.31; <0.0001	8; 1.56; 0.25	37; 2.11; 0.0011						
ETEC-eitB	n = 327	79; 1.13; 0.49	18; 2.24; 0.026	8; 1.66; 0.31	35; 0.97; 0.91	83; 0.73; 0.046	21; 1.70; 0.081	73; 1.32; 0.10	56; 2.03; 0.0005					
ETEC-estA	n = 192	49; 0.97; 0.92	9; 1.47; 0.38	4; 1.20; 0.76	19; 0.87; 0.70	59; 1.06; 0.73	21; 3.67; <0.0001	35; 0.90; 0.69	32; 1.67; 0.026	112; 3.85; <0.0001				
EPEC-bfpA (n = 493)	n = 125	18; 0.80; 0.55	4; 0.83; 1.0	5; 2.40; 0.16	16; 1.58; 0.11	33; 0.67; 0.065	4; 0.77; 0.81	27; 1.52; 0.088	13; 1.34; 0.38	45; 1.33; 0.17	18; 0.83; 0.60			
EPEC-eae (n = 493)	n = 214	46; 1.15; 0.58	10; 1.39; 0.41	8; 2.61; 0.052	28; 1.78; 0.027	58; 0.59; 0.0025	6; 0.63; 0.42	32; 0.87; 0.59	21; 1.29; 0.39	74; 1.28; 0.17	30; 0.76; 0.29	75; 6.09; <0.0001		
Salmonella	n = 67	17; 1.49; 0.30	3; 1.31; 0.73	2; 1.75; 0.34	7; 0.94; 1.0	22; 1.17; 0.58	2; 0.60; 0.76	13; 1.0; 1.0	5; 0.58; 0.33	31; 1.84; 0.021	7; 0.46; 0.056	12; 1.51; 0.25	17; 1.21; 0.53	
Shigella	n = 209	47; 1.07; 0.76	2; 0.22; 0.020	3; 0.75; 0.78	16; 0.62; 0.10	23; 0.23; <0.0001	16; 2.01; 0.041	45; 1.18; 0.38	27; 1.13; 0.63	76; 1.22; 0.22	42; 1.06; 0.77	34; 1.86; 0.0081	59; 2.14; 0.0001	17; 1.30; 0.35

EPEC = enteropathogenic *E. coli*; ETEC = enterotoxigenic *E. coli*; GI = genotype I; GII = genotype II. For each combination, frequency, odds ratio (OR), and *P* value are given. Bolding indicates the combinations with a *P* value below 0.05 and an OR above 1. Shaded cells indicate combinations with a *P* value below 0.05 and an OR below 1.

Supplemental Table 3
Frequencies and Ct values for real-time polymerase chain reaction detection of pathogens in feces from patients and controls

	Number detected				Ct value		
	Patients	Controls	OR	<i>P</i> value	Patients	Controls	<i>P</i> value
Adenovirus	235	120	0.94	0.67	36.7	38.2	0.063
Astrovirus	35	4	2.92	0.034	25.6	20.5	0.430
Norovirus GI	18	13	0.44	0.033	32.3	28.9	0.380
Norovirus GII	109	11	3.50	< 0.0001	27.2	29.4	0.210
Rotavirus	295	6	22.3	< 0.0001	21.8	26.4	0.130
Sapovirus	47	25	0.59	0.048	27.6	26.4	0.390
Campylobacter	193	84	0.69	0.015	34.2	37.0	0.007
Cryptosporidium	118	23	1.76	0.017	31.1	33.2	0.025
ETEC-eitB	326	130	0.73	0.019	32.0	34.3	0.003
ETEC-estA	192	55	1.17	0.37	29.9	37.2	< 0.0001
EPEC-bfpA	125	13	1.99	0.024	31.6	33.0	0.340
EPEC-eae	214	47	0.82	0.33	34.3	36.0	0.069
Salmonella	67	21	1.04	1.00	41.4	40.7	0.120
Shigella	209	72	0.93	0.64	29.2	34.5	< 0.0001

Ct = threshold cycle; EPEC = enteropathogenic *E. coli*; ETEC = enterotoxigenic *E. coli*; GI = genotype I; GII = genotype II; OR = odds ratio. Adenovirus was tested in only 658 patients and 324 controls (not in the samples from 2009 to 2010). Enteropathogenic *E. coli*-bfpA and EPEC-eae were not tested in samples from Zanzibar (165 patients and 165 controls). Bolding highlights a *P* value below 0.05 and an OR above 1 (Fisher's exact test) or a *P* value below 0.05 by Mann-Whitney *U* test (Ct values).