

Supplementary Table 1: Social Demographic Characteristics of Children with DEC pathotypes

Variable	Case			Control		
	All DEC		X^2 (p-value)	All DEC		X^2 (p-value)
Age	Yes	No		Yes	No	
0 - 6 months	43 (56.6)	29 (65.9)	1.69 (0.430)	196 (90.7)	129 (91.5)	0.07 (0.964)
7 - 12 months	20 (26.3)	11 (25.0)		17 (7.9)	10 (7.1)	
13 months and above	13 (17.1)	4 (9.1)		3 (1.4)	2 (1.4)	
Sex						
Male	35 (46.1)	22 (50.0)	0.17 (0.676)	122 (56.5)	82 (58.2)	0.10 (0.755)
Female	41 (53.9)	22 (50.0)		94 (43.5)	59 (41.8)	
Breastfeeding						
Yes	36 (47.4)	18 (40.9)	0.47 (0.493)	150 (69.4)	105 (74.5)	1.06 (0.304)
No	40 (53.6)	26 (59.1)		66 (30.6)	36 (25.5)	
Location						
Alakia	3 (3.9)	3 (6.8)	0.79 (0.939)	7 (3.2)	7 (5.0)	1.57 (0.814)
Ejioku	1 (1.3)	1 (2.3)		5 (2.3)	5 (3.5)	
Eleweodo	15 (19.7)	9 (20.5)		6 (2.8)	4 (2.8)	
Lalupon	33 (43.4)	19 (43.2)		156 (72.2)	102 (72.3)	
Monatan	24 (31.6)	12 (27.3)		42 (19.5)	23 (16.3)	
BMI						
Underweight	59 (77.6)	28 (63.6)	2.74 (0.098)	165 (76.7)	107 (76.4)	0.01 (0.945)
Not Underweight	17 (22.4)	16 (36.4)		50 (23.3)	33 (23.6)	
Household water						
Sanitary water	0 (0)	1 (2.3)	1.74 (0.187)	1 (0.5)	0 (0.0)	0.66 (0.418)
Unsanitary water	76 (100)	43 (97.7)		215 (99.5)	141 (100.0)	
Education						
less than basic education	13 (17.1)	12 (27.3)	1.71 (0.192)	56 (25.9)	43 (30.5)	0.89 (0.346)
Basic education	63 (82.9)	32 (72.7)		160 (74.1)	98 (69.5)	

Supplementary Table 2: Social Demographic Characteristics of Children with EAEC pathotypes

Variable	Case			Control		
	EAEC		X ² (p-value)	EAEC		X ² (p-value)
	Yes	No		Yes	No	
Age						
0 - 6 months	41 (56.9)	31 (64.6)	0.70 (0.705)	185 (90.2)	140 (92.1)	0.39 (0.825)
7 - 12 months	20 (27.8)	11 (22.9)		17 (8.3)	10 (6.6)	
13 months and above	11 (15.3)	6 (12.5)		3 (1.5)	2 (1.3)	
Sex						
Male	33 (45.8)	24 (50.0)	0.20 (0.654)	118 (57.6)	86 (56.6)	0.03 (0.853)
Female	39 (54.2)	24 (50.0)		87 (42.4)	66 (43.4)	
Breastfeeding						
Yes	34 (47.2)	20 (41.7)	0.36 (0.549)	142 (69.3)	113 (74.3)	1.10 (0.294)
No	38 (52.8)	28 (58.3)		63 (30.7)	39 (25.7)	
Location						
Alakia	3 (4.2)	3 (6.3)	0.42 (0.981)	7 (3.4)	7 (4.6)	1.77 (0.778)
Ejioku	1 (1.4)	1 (2.1)		4 (2.0)	6 (3.9)	
Eleweodo	15 (20.8)	9 (18.8)		6 (2.9)	4 (2.6)	
Lalupon	31 (43.1)	21 (43.8)		149 (72.7)	109 (71.7)	
Monatan	22 (30.6)	14 (29.2)		39 (19.0)	26 (17.1)	
BMI						
Underweight	56 (77.8)	31 (64.6)	0.70 (0.705)	157 (77.0)	115 (76.2)	0.39 (0.825)
Not Underweight	16 (22.2)	17 (35.4)		47 (23.0)	36 (23.8)	
Household water						
Sanitary water	0 (0)	1 (2.1)	1.51 (0.219)	1 (0.5)	0 (0.0)	0.74 (0.389)
Unsanitary water	72 (100)	47 (97.9)		204 (99.5)	152 (100.0)	
Education						
less than basic education	11 (15.3)	14 (29.2)	3.37 (0.066)	54 (26.3)	45 (29.6)	0.46 (0.496)
Basic education	61 (84.7)	34 (70.8)		151 (73.7)	107 (70.4)	

Supplementary Table 3: Social Demographic Characteristics of Children with ETEC pathotypes

Variable	Case			Control		
	ETEC		X ² (p-value)	ETEC		X ² (p-value)
	Yes	No		Yes	No	
Age						
0 - 6 months	3 (37.5)	69 (61.6)	9.08 (0.011)	10 (90.9)	315 (91.0)	0.19 (0.908)
7 - 12 months	1 (12.5)	30 (26.8)		1 (9.1)	26 (7.5)	
13 months and above	4 (50.0)	13 (11.6)		0 (0)	5 (1.4)	
Sex						
Male	2 (25.0)	55 (49.1)	1.74 (0.187)	5 (45.5)	199 (97.5)	0.63 (0.426)
Female	6 (75.0)	57 (50.9)		6 (54.5)	147 (42.5)	
Breastfeeding						
Yes	4 (50.0)	50 (44.6)	0.09 (0.769)	9 (81.8)	246 (71.1)	0.60 (0.438)
No	4 (50.0)	62 (55.4)		2 (18.2)	100 (28.9)	
Location						
Alakia	0 (0.0)	6 (5.4)	2.02 (0.732)	0 (0.0)	14 (4.0)	11.35 (0.023)
Ejioku	0 (0.0)	2 (1.8)		2 (18.2)	8 (2.3)	
Eleweodo	1 (12.5)	23 (20.5)		0 (0)	10 (2.9)	
Lalupon	3 (37.5)	49 (43.8)		6 (54.5)	252 (72.8)	
Monatan	4 (50.0)	32 (28.6)		3 (27.3)	62 (17.9)	
BMI						
Underweight	7 (87.5)	80 (71.4)	0.97 (0.325)	10 (90.9)	262 (96.3)	1.29 (0.255)
Not Underweight	1 (12.5)	32 (28.6)		1 (9.1)	82 (23.8)	
Household water						
Sanitary water	0 (0)	1 (0.9)	0.07 (0.788)	0 (0)	1 (0.3)	0.03 (0.858)
Unsanitary water	8 (100)	111 (99.1)		11 (100)	345 (96.9)	
Education						
less than basic education	4 (50.0)	21 (18.8)	4.42 (0.035)	2 (18.2)	97 (28.0)	0.52 (0.472)
Basic education	4 (50.0)	91 (81.3)		9 (81.8)	249 (72.0)	

Supplementary Table 4: Social Demographic Characteristics of Children with EPEC pathotypes

Variable	Case			Control		
	EPEC		X ² (p-value)	EPEC		X ² (p-value)
Age	Yes	No		Yes	No	
0 - 6 months	4 (57.1)	68 (60.2)	1.90 (0.387)	15 (93.8)	310 (90.9)	0.29 (0.867)
7 - 12 months	3 (42.9)	28 (24.8)		1 (6.2)	26 (7.6)	
13 months and above	0 (0.0)	17 (15.0)		0 (0.0)	5 (1.5)	
Sex						
Male	4 (57.1)	53 (46.9)	0.28 (0.599)	10 (62.5)	194 (56.9)	0.20 (0.658)
Female	3 (42.9)	60 (53.1)		6 (37.5)	147 (43.1)	
Breastfeeding						
Yes	2 (28.6)	52 (46.0)	0.81 (0.368)	10 (62.5)	245 (71.8)	0.80 (0.370)
No	5 (71.4)	61 (54.0)		6 (37.5)	96 (28.2)	
Location						
Alakia	0 (0.0)	6 (5.3)	0.949 (0.917)	0 (0.0)	14 (4.1)	3.69 (0.450)
Ejioku	0 (0.0)	2 (1.8)		0 (0.0)	10 (2.9)	
Eleweodo	1 (14.3)	23 (20.4)		1 (6.3)	9 (2.6)	
Lalupon	4 (57.1)	48 (42.5)		14 (87.5)	244 (71.6)	
Monatan	2 (28.6)	34 (30.1)		1 (6.3)	64 (18.8)	
BMI						
Underweight	7 (100)	80 (70.8)	2.82 (0.093)	10 (62.5)	262 (77.3)	1.87 (0.172)
Not Underweight	0 (0.0)	33 (29.2)		6 (37.5)	77 (22.7)	
Household water						
Sanitary water	0 (0.0)	1 (0.9)	0.06 (0.803)	0 (0.0)	1 (0.3)	0.05 (0.828)
Unsanitary water	7 (100)	112 (99.1)		16 (100)	340 (99.7)	
Education						
less than basic education	3 (42.9)	22 (19.5)	2.19 (0.139)	4 (25.0)	95 (27.9)	0.06 (0.803)
Basic education	4 (57.1)	91 (80.5)		12 (75.0)	246 (72.1)	

Supplementary Table 5: Logistic Regression of selected demographics

Variable	ETEC (Case)		ETEC (Control)	
	OR (95% CI)	P value	OR (95% CI)	P value
Age				
0 - 6 months (ref)			ND	
7 - 12 months	0.77(0.077-7.673)	0.821	ND	
13 months and above	7.08(1.415-35.404)	0.017	ND	
Location				
Alakia	ND		0.00(0.000-0.000)	0.999
Ejioku	ND		5.17(0.746-35.766)	0.096
Eleweodo	ND		0.00(0.000-0.000)	0.999
Lalupon	ND		0.49(0.120-2.023)	0.325
Monatan (ref)	ND			
Education				
less than basic education	4.33(1.001-18.750)	0.050	ND	
Basic education (ref)			ND	

*Empty Cells are either references or cells with zero values and ND means not determined.