

Supplementary data

Table S1. List of gene accession numbers downloaded from GenBank (NCBI)
(<https://www.ncbi.nlm.nih.gov/nucleotide/>)

Gene	Accession number				
<i>eltB</i>	FN649417.1	AP010910.1	EU113252.1	S60731.1	AB011677.1
	J01646.1	FN822745.1	FJ407053.1	NC_009786.1	NC_014232.1
	NC_017640.1				
<i>estA</i>	AJ868113.1	FN822745.1	J03311.1	M18346.1	M18345.1
	AB702969.1	M29255.1	M34916.1	NC_014232.1	
<i>bfpA</i>	KJ641929.1	KJ020707.1	AB364244.1	FN391181.1	DQ388534.1
	KJ020711.1	KJ020697.1	AB364243.1	FM180569.1	
<i>rfbE_O157</i>	CP007592.1	CP008957.1	JQ907520.1	CP001368.1	AF163334.1
	CP010304.1	CP008805.1	JN578668.1	AF163335.1	
<i>stx1</i>	NC_002695.1	NC_011356.1	JX206444.1	EU754740.1	KM406321.1
	NC_013364.1	AP010953.1	JX161807.1	LM997224.1	JQ327854.1
	CP001925.1	GQ429158.1			
<i>stx2</i>	HF572917.2	KF932362.1	CP008805.1	CP006027.1	HF558443.1
	KM516099.1	LM997391.1	KJ158456.1	HF558445.1	HF558442.1
	AB854290.1				

Table S2. Demographic and clinical manifestations of DEC mono-infection in children hospitalized with diarrhoea

Characteristics	Number of patients (%)												
	ETEC (n=34)		EAEC (n=170)		EIEC (n=116)		EPEC (n=137)		EHEC (n=20)		Negative (n=1,385)		<i>p</i> value ^a
Socio-demographic													
Male	18	(52.9)	117	(68.8)	70	(60.3)	82	(59.9)	16	(80.0)	852	(61.5)	0.118
Age in months, <i>median</i> [IQR]	11.2	[7.0-20.4]	11.5	[7.4-18.1]	14.8	[6.7-24.5]	12.4	[8.4-18.7]	15.6	[8.3-21.2]	9.1	[5.7-14.5]	0.388
Growth ^b													
Obese or overweight	0	-	15	(8.8)	11	(9.5)	13	(9.6)	0	-	129	(9.3)	0.321
Wasted or severely wasted	4	(11.8)	23	(13.5)	7	(6.0)	5	(3.7)	1	(5.0)	126	(9.1)	0.013
Type of diarrhoea ^c													<0.001
Non-bloody diarrhoea	23	(67.6)	142	(83.5)	63	(54.3)	98	(71.5)	15	(75.0)	812	(58.6)	<0.001
Bloody diarrhoea	8	(23.5)	23	(13.5)	46	(39.7)	33	(24.1)	4	(20.0)	368	(26.6)	<0.001
Persistent diarrhoea	3	(8.8)	5	(2.9)	7	(6.0)	6	(4.4)	1	(5.0)	205	(14.8)	0.414
Clinical manifestations													
Number of episodes per day, <i>median</i> [IQR]	5	[4-9]	6	[5-10]	6	[5-10]	6	[4-10]	5.5	[4-8]	7	[5-10]	0.284
Moderate and severe dehydration ^d	3	(8.8)	20	(11.8)	15	(12.9)	23	(16.8)	8	(40.0)	123	(8.9)	0.010
Abdominal pain	5	(14.7)	30	(17.7)	25	(21.6)	23	(16.8)	6	(30.0)	287	(20.7)	0.363
Fever ($\geq 37.5^{\circ}\text{C}$ at enrolment)	19	(55.9)	104	(61.2)	69	(59.5)	83	(60.6)	12	(60.0)	764	(55.2)	0.985
Vomit, <i>n</i> (%)	15	(44.1)	108	(63.5)	76	(65.5)	90	(65.7)	15	(75.0)	753	(54.4)	0.238
Haematology													
Neutrophil count ($10^3/\mu\text{L}$), <i>median</i> [IQR]	5.6	[3.3-9.3]	4.3	[2.3-6.6]	5.4	[2.9-9.4]	4.2	[2.5-6.9]	5.5	[3.5-7.8]	3.5	[2.2-5.7]	0.014
C-reactive protein (mg/L), <i>median</i> [IQR]	8.4	[5.0-31.0]	5.0	[1.0-19.3]	8.0	[5.0-40.2]	5.0	[1.3-12.0]	8.0	[6.0-15.9]	6.0	[4.0-21.4]	0.132
Treatment													
Low-osmolarity ORS	29	(85.3)	164	(96.5)	110	(94.8)	131	(95.6)	20	(100)	1,285	(92.8)	0.125
IV rehydration,	3	(8.8)	19	(11.2)	15	(12.9)	26	(19.1)	8	(40.0)	141	(10.2)	0.005
Antimicrobials,	30	(88.2)	123	(72.4)	101	(87.1)	109	(79.6)	16	(80.0)	1134	(81.9)	0.027
Fluoroquinolones, <i>n</i> (% of antibiotic treated) ^e	20	(66.7)	66	(53.7)	65	(64.4)	77	(70.6)	12	(75.0)	717	(63.2)	0.077
Zinc	29	(85.3)	148	(87.1)	100	(86.2)	118	(86.1)	20	(100.0)	1,243	(89.7)	0.488
Probiotics	22	(64.7)	123	(72.4)	89	(76.7)	99	(72.3)	16	(80.0)	957	(69.1)	0.631
Outcomes													
Hospital stay in days, <i>median</i> [IQR]	4	[3-5]	4	[3-6]	3.5	[3-6]	4	[3-6]	4	[3-6.5]	5	[3-7]	0.582
Improved and recovered after 3 days ^f	32	(94.1)	157	(92.4)	106	(91.4)	129	(94.2)	18	(90.0)	1,204	(86.9)	0.872

ORS: Oral Rehydration Solution; IQR: Inter-quartile range

^a Comparison among DEC mono-infection using χ^2 test or Fisher's exact test for categorical data or Kruskal-Wallis test for continuous data (negative group was not included)

^b Obese: weight for length z score $>3\text{SD}$ in children age $<24\text{months}$; BMI for age z score $>3\text{SD}$ in children age $\geq 24\text{months}$,

Overweight: weight for length z score $>2\text{SD}$ in children age $<24\text{months}$; BMI for age z score $>2\text{SD}$ in children age $\geq 24\text{months}$,

Wasted: weight for length z score $<-2\text{SD}$ in children age $<24\text{months}$; BMI for age z score $<-2\text{SD}$ in children age $\geq 24\text{months}$,

Severely wasted: weight for length z score $<-3\text{SD}$ in children age $<24\text{months}$; BMI for age z score $<-3\text{SD}$ in children age $\geq 24\text{months}$ ³⁴

^c Type of diarrhoea including non-bloody diarrhoea (diarrhoea with mucus, $<14\text{days}$), bloody diarrhoea (diarrhoea with blood, $<14\text{days}$), and persistent diarrhoea (diarrhoea with mucus and/or blood, $\geq 14\text{days}$)

^d Dehydration classified according to Integrated Management of Childhood Illness³⁵

^e Fluoroquinolones included ciprofloxacin and norfloxacin.

^f Defined as "recovered" if patient had <3 passages of loose stool in the past 24 hours or "improved" if patient had less episodes of diarrhoea and less mucus and/or bloody in comparison to the condition of the patient at enrolment.

