

**S1 Table: Details of isolates in the three groups.**

S.No.	Age	Sex	Beta-lactamase phenotype	Beta-lactamase genes detected	Resistance phenotype to antibiotics	Virulence genes detected	Phylogroups detected	Antibiotic resistance genes detected	SNP mutation gyrA/parC	Position(s) of amino acid change(s) in: GyrA ParC
10	3-5 years	female	ESBL	Tem, shv	NF-CTX-NA-CIP-AMK	Bfp, elt, est, eae, eaf, eagg	B1,B2	sul1	gyrA + parC	83 80
20	0-1 years	female	ESBL	Act, dha, tem,	CTX	Bfp, stx, hyla	A	tetA, tetC	None	
30	0-1 years	Male	ESBL	Tem	CTX	Bfp, est, eaf, eagg	NONE	tetA, tetB	None	
40	1- 3 years	female	ESBL	Shv, ctx-m	CTX-NA-TZP	Bfp, est, eaf, eagg	F	sul1	GyrA	83+87
50	3-5 years	Female	ESBL	Act, cmy, tem, oxa	IPM-MEM-AZT-GEN-AMP-AMK	Bfp, eaf, eagg	B2	AacC1	None	
60	0-1 years	Male	ESBL	Ctx	NF-CAZ-NA	Bfp, est, eae, eaf, eagg	B1, E	sul1	None	
70	1- 3 years	Female	AMPC, AmpC	Vim, act	NF-CTX-NA-GEN-CIP	Bfp, elt, est, eagg	A	sul1, AacC1	gyrA + parC	83+87, 80
80	0-1 years	Male	ESBL	Tem	CTX-CIP-PB-TZP	Stx	B2	sul1	ParC	80
90	1- 3 years	Male	ESBL	Shv, oxa	CTX-CAZ-GEN-NA-AMK	Bfp, east	B2	sul1, AacC1,	None	
100	1- 3 years	Male	NONE	Shv	GEN-TZP	Bfp, est, eae, eaf, eagg	D	AacC1	None	
110	0-1 years	Male	ESBL	Oxa	AZT	Bfp, est, eae, eagg, east	B1, B2	None	None	
120	1- 3 years	Female	NONE	None	CTX-IPM-NA-AMK	Bfp	B2	sul1	GyrA	83
130	0-1 years	Male	AmpC	Cmy	CTX-CAZ-GEN-NA-AMK	East	A	sul1, AacC1	None	
140	0-1 years	Male	NONE	None	CTX-IPM-MEM-CAZ-TZP	Bfp, est, eaf, eagg, east, stx, hyla	B2	tetA, tetC	None	
150	0-1 years	Male	ESBL	Cmy, tem, shv, ctx	NF-NA-TZP	Bfp, est	B1	sul1	GyrA	83
160	3-5 years	Male	ESBL	Tem, shv	CTX-NA-GEN-CIP-TZP	Est, eagg	A	tetA, sul1, AacC1, tetC	gyrA + parC	83 80+84
170	3-5 years	Male	AmpC	Act,cmy	CTX-CIP-AMK	Elt, eae	B1, B2, C	sul1	None	
180	0-1 years	Female	NONE	None	CIP	Elt, eaf, eagg	NONE	tetA,sul1, tetB	None	
190	0-1 years	Male	ESBL	Dha, cmy, tem, oxa	AZT	Bfp, est, eagg	NONE	tetA, tetB	None	
200	1- 3 years	Female	ESBL	Tem	GEN-NA	None	B1, F	sul1, AacC1	None	
210	1- 3 years	Female	NONE	Tem, shv	NF-CTX-NA-AMP-TZP	East, stx, hyla	B2	sul1	None	
220	0-1 years	Male	ESBL	Tem, ctx	CTX-CAZ-AMK	Bfp, est, eae, eaf, eagg	A	TetA	None	
230	3-5 years	Male	ESBL	Ctx	CTX	Bfp, est, eagg	B1	tetA, tetC	None	
240	1- 3 years	Female	ESBL	Act, tem, shv, oxa	NF-CTX-IPM	Elt, eagg	A, B1	sul1	None	
250	1- 3 years	Female	ESBL,A MPC	Vim, tem, shv	CTX-AMC-GEN-AMK-TZP	Elt, est, eae, eagg, east	B2	tetA, AacC1, tetC	None	
260	0-1 years	Male	AmpC	Act, dha, shv	CTX	Bfp, elt, eaf, eagg	NONE	None	None	
270	1- 3 years	Male	AMPC	Imp, vim	NF-CTX-CAZ-AZT-NA	Bfp, est	A, B1, B2	sul1	GyrA	83+87
280	1- 3 years	Male	NONE	Shv	CIP-AMK	Bfp, est,eagg	B1, B2, E	tetA, tetB	ParC	80+84
290	0-1 years	Female	ESBL	Tem	CTX-GEN	Eaf, eagg	NONE	AacC1	None	
300	0-1 years	Female	ESBL	Tem, shv, ctx	GEN	Bfp, est, eagg, east	B2	tetA, AacC1	None	
310	1- 3 years	Female	ESBL	Tem, ctx	NA-TZP	Elt, eagg	B2	sul1	None	
320	0-1 years	Male	ESBL	None	NF-CTX-GEN	Bfp, est, eagg,stx, hyla	B2	sul1, AacC1	None	
330	0-1 years	Male	AMPC, AmpC	Imp, dha, cmy, tem	CTX-IPM-CAZ	Eagg	A	None	None	
340	0-1 years	Male	ESBL	Ndm, vim	CTX-NA	Elt, eaf	B1, B2	sul1	None	
350	0-1 years	Male	ESBL	None	CTX	Bfp, est	B2	tetA, tetB	None	

360	1- 3 years	Male	AmpC	Act	GEN-TZP	Est, east	A, B2	AacC1	None	
370	1- 3 years	Female	ESBL	None	NF-NA	Bfp, est, eae, eaf, eagg	B2	sul1	None	
380	1- 3 years	Male	ESBL	Tem, shv	CTX-CIP	Bfp, est, eae, eaf, eagg	B1, F	tetA, sul1, tetC	None	
390	0-1 years	Female	ESBL	None	CTX-CAZ-NA-GEN	Bfp, elt, east	B2	sul1, AacC1	GyrA	83
400	0-1 years	Male	ESBL	Tem, oxa	CTX-AZT-NA-GEN-CIP	Bfp, elt, est, east	B2	sul1, AacC1	GyrA	83
1I	1- 3 years	Male	ESBL	Act, cmy	CTX-AZT-NA-TZP	Eagg, east	NONE	tetA, sul1, tetB	None	
2I	0-1 years	Male	ESBL	Tem	CTX-AMK	Bfp, elt, est, eaf, eagg, east	NONE	None	None	
3I	0-1 years	Male	ESBL	Imp, vim, tem, shv	CIP	Elt, est, eagg, east	B1	sul1	ParC	80
4I	1- 3 years	Female	NONE	None	GEN	Elt, est, eaf, eagg, east	A	AacC1	None	
5I	0-1 years	Female	NONE	Shv	NF-CTX	Eaf, eagg	D	sul1	None	
6I	0-1 years	Male	ESBL	Tem, ctx	CTX-GEN-AMK-TZP	None	NONE	AacC1	None	
7I	0-1 years	Male	ESBL,A MPC	Vim, shv, oxa	CTX-IPM-NA-AMK-CCA	Bfp, est, eae, eaf, eagg, east	A, B2	tetA, sul1, tetC	None	
8I	3-5 years	Male	ESBL,A MPC	Ndm,vim, shv, oxa	CTX-GEN	Eaf, east	B1, B2, F	AacC1	None	
9I	1- 3 years	Male	ESBL	None	CTX-AZT-GEN-TZP	East	NONE	AacC1	None	
10I	1- 3 years	Female	ESBL	Tem, ctx	AZT-NA-AMP	Est, eae, eagg, east	NONE	sul1, AacC1	GyrA	83
11I	0-1 years	Male	AMPC, AmpC	Ndm, imp, act	CTX-AMK	Est, eae, eaf, east	NONE	tetA, tetB	None	
12I	0-1 years	Female	ESBL,A MPC	Imp, vim, tem	NF-CAZ	Bfp, est, eae, eaf	C	sul1	None	
13I	0-1 years	Female	AMPC	Imp, vim	CTX-GEN-CRO	Stx	B2	AacC1	None	
14I	3-5 years	Male	AMPC, AmpC	Act, cmy, shv	NF-CTX-GEN-NA-TZP	Bfp, east, stx	A	sul1, AacC1	None	
15I	0-1 years	Male	ESBL,A mpC	Tem, shv	IPM-AMC-AMK-TZP	Est, eae, eaf, east, hyla	B1	tetA, sul1, AacC1	None	
16I	1- 3 years	Male	AMPC	Ndm, vim	CTX-IPM-MEM-CAZ	Bfp	B2	None	None	
17I	3-5 years	Female	AMPC	Vim	CTX-AMK	East	NONE	None	None	
18I	3-5 years	Female	ESBL	Ctx, oxa	CTX-NA-AMK	Bfp, east, hyla	NONE	tetA, sul1, tetC	None	
19I	0-1 years	Female	ESBL	Tem, shv	CTX-TZP	East	D	None	None	
20I	0-1 years	Female	ESBL,A MPC	Ndm, tem, shv, ctx	CTX-GEN	Est	A, B2	AacC1,	None	
21I	0-1 years	Female	ESBL,A MPC	Ndm, imp, ctx, oxa	CTX-AMP	Eae, eaf, east	B2	tetA, tetB	None	
22I	1- 3 years	Female	AMPC	None	CTX-NA-TZP	Bfp, est, eae, eaf	B1	sul1	None	
23I	0-1 years	Male	ESBL	Shv, ctx	NF-CTX-AZT-TZP	Bfp, est, eae	E	sul1	None	
24I	0-1 years	Female	NONE	None	CTX-GEN	Est, eae, eaf, eagg	B1	AacC1	None	
25I	3-5 years	Female	ESBL	Act, cmy	CTX	Est, eae, eagg	B2	tetA, tetC	None	
26I	0-1 years	Male	NONE	None	NF-CTX-NA-AMK	Bfp, elt, est, east	B1, B2	sul1	GyrA	83+87
27I	1- 3 years	Female	NONE	None	NF-CTX-AMP	Bfp, est, eae, eaf, eagg, east	B1	tetA, sul1	None	
28I	0-1 years	Female	ESBL,A MPC	Tem, shv	CTX-AMK-TZP	Est, eae, eaf	A, B2, F	None	None	
29I	0-1 years	Male	NONE	Act, tem, shv, ctx	CAZ-GEN-NA	Bfp, est, eae, eagg	B2	sul1, AacC1,	None	
30I	0-1 years	Male	NONE	None	CTX-NA	Bfp, est, eae, eagg	B1	tetA, sul1, tetC	None	
31I	0-1 years	Female	ESBL,A mpC	Tem, shv, ctx	CTX-AMK	Eae, eaf, eagg	B2	tetA, tetB	None	
32I	3-5 years	Female	ESBL	Tem, oxa	CTX-GEN-NA	Bfp, elt, eae, eaf, eagg	NONE	sul1, AacC1,	GyrA	83
33I	1- 3 years	Male	ESBL,A MPC	Vim, shv	CTX-AZT-GEN-NA	Bfp, eae, eaf, eagg	B2, F	sul1, AacC1,	GyrA	83

34I	0-1 years	Male	ESBL	Shv, ctx	CTX-GEN-NA	Eae, eaf	B1	sul1, AacC1	None	
35I	3-5 years	Female	ESBL,A mpC	Dha, tem	CTX-AMK	Elt, eae, eaf, eagg, east	NONE	tetA, tetC	None	
36I	0-1 years	Female	ESBL	Act	CTX-NA	Bfp, eae, eagg	NONE	sul1	None	
37I	3-5 years	Female	ESBL,A mpC	Cmy, ctx, oxa	CTX	Est, eae, eaf, eagg	B2, D	None	None	
38I	0-1 years	Male	ESBL,A mpC	Dha	CTX-AMC-GEN-NA- AMK	Bfp, elt, eae, eaf	NONE	sul1, AacC1,	None	
39I	3-5 years	Male	ESBL	Imp, vim, tem, oxa	CTX-GEN-NA	Eae, eaf, eagg	NONE	sul1, AacC1	None	
40I	0-1 years	Male	ESBL	Ctx	NF-CAZ-NA-AMK	Bfp, est, eae, eagg	NONE	sul1, dfrB1	None	
1C	1- 3 years	Male	NONE	None	NF-GEN-NA	None	A, B2	sul1, AacC1	GyrA	83
2C	0-1 years	female	AmpC	Act, shv	NONE	None	NONE	None	None	
3C	3-5 years	Male	ESBL	Tem, shv	CTX-NA	None	B2	tetA, sul1, tetB	None	
4C	3-5 years	Male	ESBL	Tem	NA	None	NONE	sul1,	None	
5C	3-5 years	Female	ESBL	Shv, ctx, oxa	NA	None	NONE	sul1,	None	
6C	0-1 years	Male	AMPC,A mpC	Ndm, act, ctx	NA-TZP	None	A	sul1,	None	
7C	3-5 years	Male	ESBL,A MPC	Imp, vim, act, cmy, tem, shv, oxa	NF-GEN	Eagg	NONE	sul1, AacC1	None	
8C	1- 3 years	Male	AMPC	Ndm	NF	Eae	B1, B2	sul1	None	
9C	3-5 years	Male	ESBL	Shv	NF-CIP	Eae	NONE	sul1	None	
10C	1- 3 years	Male	NONE	Ctx	NONE	Eae, eagg	A	None	None	
11C	3-5 years	Male	AmpC	Dha	NA	Bfp, eaf, eagg	NONE	sul 1	None	
12C	0-1 years	Male	ESBL	Tem, shv, oxa	CTX-NA-CRO	Stx, hyla	B1, B2	tetA, sul1	GyrA	83+87
13C	0-1 years	Male	ESBL	Ctx	CTX-NA	None	NONE	sul1	None	
14C	0-1 years	Male	ESBL	Shv, oxa	NONE	None	NONE	None	None	
15C	1- 3 years	Female	AMPC,A mpC	Vim, cmy, ctx	NONE	Bfp	B2, C	None	None	
16C	0-1 years	Male	ESBL,A MPC	Ndm, vim, tem, oxa	NA	bfp	NONE	sul1	None	
17C	0-1 years	Male	AMPC	Imp	NONE	Eae	B1	None	None	
18C	3-5 years	Male	ESBL	Tem	NA	Eae	NONE	None	None	
19C	1- 3 years	Male	NONE	None	NA	Eaf	E	sul1	None	
20C	1- 3 years	Male	AmpC	Act, cmy	NONE	Eagg	NONE	None	None	
21C	1- 3 years	Female	ESBL	Tem	CTX	East	B2	tetA, tetB	None	
22C	0-1 years	Male	ESBL	Shv	NA	Eaf, eagg	NONE	sul1	GyrA	83
23C	1- 3 years	Male	ESBL	Act, dha, tem, shv	NF	Bfp, east	NONE	sul1	None	
24C	3-5 years	Male	AMPC,A mpC	Ndm, vim, act	NONE	Bfp, eagg	A	None	None	
25C	0-1 years	Male	ESBL,A MPC	Imp, vim	NA-TZP	Bfp, eagg	B1, D	None	None	
26C	0-1 years	Male	AMPC	Ndm, vim, dha, cmy, ctx	CTX-NA	Eae	NONE	sul1	None	
27C	3-5 years	Male	ESBL	Tem, shv	NF	Eae, eaf, eagg	NONE	sul1	None	
28C	0-1 years	Male	NONE	None	NONE	Eagg	B2	None	None	
29C	3-5 years	Male	AmpC	Act, dha	NF	Eagg	NONE	sul1	None	
30C	0-1 years	Male	ESBL	Tem	NA	None	B2	None	None	
31C	3-5 years	Female	ESBL	Tem	NONE	None	NONE	None ,	None	
32C	0-1 years	Male	ESBL	Tem, shv	CTX	Eaf, eagg	NONE	tetA, tetC	None	

33C	3-5 years	Female	AMPC, AmpC	Imp, vim	NF-CTX	eae	B1, F	tetA, sul1, tetB	None	
34C	1- 3 years	Female	ESBL, AmpC	Ndm, imp, act	NONE	Eaf, eagg, hyla	NONE	None	None	
35C	1- 3 years	Male	AMPC	Imp	NA	Bfp, eaf	NONE	sul1	GyrA	83
36C	0-1 years	Female	ESBL	Tem, oxa	NONE	est	D	None	None	
37C	1- 3 years	Female	NONE	Ctx	NA	Eae, eaf	A	sul1	None	
38C	1- 3 years	Male	AmpC	Dha, emy	NA	None	B2	sul1	None	
39C	0-1 years	Male	ESBL	Tem, shv	NF	Bfp, eae, eagg	NONE	sul1	None	
40C	0-1 years	Male	ESBL	Tem, ctx, oxa	NF	bfp	B2	sul1	None	

Note: Each group included 40 subjects and were categorized as diarrhoeal (O), non-diarrhoeal (I) and healthy (C).