

Intestinal Loads of Extended-Spectrum Beta-Lactamase and Carbapenemase Genes in Critical Pediatric Patients

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Supplementary Table 1. Sensitivity and specificity of the antibiotic-selective cultures used in this study compared to the PCR results for OXA-48 and VIM-producing organisms. Numbers in parentheses () indicate the range of the 95% Confidence Interval.

PCR	Antibiotic-selective Cultures			
	OXA-48		VIM	
	Positive	Negative	Positive	Negative
Positive	34	32	48	78
Negative	5	306	5	243
Sensitivity	51.52% (38.88 – 64.01)		38.1% (29.59 – 47.17)	
Specificity	98.39% (96.29 – 99.48)		98.98% (95.36 – 99.34)	

Supplementary Table 2. Observed genera, α -diversity (Shannon method), and percent relative loads (%RLs) of the four genes tested for in this study for the 40 samples selected for *16sDNA* metagenomic sequencing. “-” implies that the sample was negative for the corresponding gene.

Sample	Observed Genera	α -Diversity	%RL <i>bla</i> _{CTX-}	%RL	%RL	%RL
			M-1-Family	<i>bla</i> _{OXA1}	<i>bla</i> _{OXA48}	<i>bla</i> _{VIM}
S1	11	0.595	-	-	-	21.58
S2	6	0.796	3.88	3.64	5.46	19.31
S3	15	2.055	4.21	4.81	4.80	13.09
S4	11	1.098	7.68	4.26	9.36	0.98
S5	17	0.856	6.04	5.78	8.56	1.66
S6	11	1.190	6.19	17.62	7.91	6.34
S7	32	2.292	0.00	0.00	0.00	8.29
S8	11	1.115	1.33	1.69	9.54	-
S9	11	1.420	2.67	3.17	6.15	-
S10	7	1.147	4.16	5.10	-	0.51
S11	14	1.764	2.20	2.35	2.41	0.05
S12	49	2.207	1.04	0.77	1.61	2.90
S13	6	1.165	1.17	1.51	2.94	-
S14	11	1.084	1.65	1.41	3.30	-
S15	13	1.365	2.49	4.06	0.00	-
S16	6	0.952	0.92	1.30	2.16	-
S17	15	1.654	0.66	0.61	1.52	-
S18	8	1.598	1.14	1.62	-	0.01
S19	9	0.325	0.14	0.18	0.55	0.94
S20	5	0.872	0.16	0.24	0.54	-
S21	23	1.712	0.29	0.37	-	-
S22	17	1.691	0.04	0.06	0.05	-
S23	12	1.524	0.00	0.00	0.00	-
S24	40	2.231	0.05	0.09	0.10	-
S25	7	0.489	0.15	0.15	0.16	-
S26	10	1.282	0.03	0.03	0.09	-
S27	12	0.713	0.03	0.03	0.09	-
S28	13	1.327	0.001	0.002	0.001	-
S29	3	0.788	0.001	-	0.003	0.001
S30	17	1.336	-	-	-	-
S31	16	1.882	-	-	-	-
S32	30	2.326	-	-	-	-
S33	37	2.259	-	-	-	-
S34	33	1.537	-	-	-	-
S35	34	2.010	-	-	-	-
S36	19	1.455	-	-	-	-
S37	18	2.139	-	-	-	-
S38	43	0.133	-	-	-	-
S39	28	0.409	-	-	-	-
S40	3	0.695	-	-	-	-