

Supplementary Materials: Prevention and Killing Efficacy of Carbapenem Resistant *Enterobacteriaceae* (CRE) and Vancomycin Resistant *Enterococci* (VRE) Biofilms by Antibiotic-Loaded Calcium Sulfate Beads

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Table 1. Multivariate analysis (ANOVA) of prevention and killing treatment groups.

Parameters	Prevention Group		Killing Group	
	Test Statistics (F)	p Value	Test Statistics (F)	p Value
Corrected model	40.658	< 0.001	30.874	< 0.001
Exposure time	139.609	< 0.001	63.883	< 0.001
Bacteria strain	66.330	< 0.001	13.234	< 0.001
Treatment	555.882	< 0.001	305.467	< 0.001
Exposure time × Bacteria strain	8.743	< 0.001	24.298	< 0.001
Exposure time × Treatment	6.690	< 0.001	19.147	< 0.001
Bacteria strain × Treatment	11.380	< 0.001	6.665	< 0.001
Exposure time × Bacteria strain × Treatment	2.088	0.001	2.220	0.003

Table 2. Biomass and thickness of biofilms in prevention group analyzed by COMSTAT.

Prevention Biomass (µm ³ /µm ²)		KP 1705	KP 2146	KP 2524	EF 51299	Prevention Thickness (µm)		KP 1705	KP 2146	KP 2524	EF 51299
Day 1	Control	2.59	4.59	1.93	3.88	Day 1	Control	8.90	9.52	9.73	10.40
	GV	2.05	2.11	1.50	1.44		GV	3.72	4.14	4.35	3.72
	RM	0.98	0.15	0.11	1.11		RM	2.69	2.48	3.52	2.90
	RV	1.58	0.32	0.50	1.07		RV	3.10	3.93	4.04	5.80
	VT	2.50	1.04	1.25	0.86		VT	5.38	8.28	3.10	3.93
Day 3	Control	2.35	2.77	2.09	2.42	Day 3	Control	4.55	4.55	4.55	1.00
	GV	5.45	0.39	0.42	0.46		GV	12.22	3.72	1.00	1.86
	RM	0.25	0.85	0.26	0.13		RM	1.00	1.00	1.00	3.93
	RV	1.23	2.32	0.27	0.88		RV	2.69	6.00	1.45	4.35
	VT	1.48	0.37	0.30	1.75		VT	3.72	1.00	1.24	3.25

Table 3. Biomass and thickness of biofilms in killing group analyzed by COMSTAT.

Killing Biomass ($\mu\text{m}^3/\mu\text{m}^2$)		KP 1705	KP 2146	KP 2524	EF 51299	Killing Thickness (μm)		KP 1705	KP 2146	KP 2524	EF 51299
Day 1	Control	3.51	3.64	3.68	5.65	Day 1	Control	6.01	3.94	9.74	6.01
	GV	2.32	2.05	2.07	2.59		GV	8.08	3.94	6.01	3.25
	RM	2.71	2.26	0.65	0.85		RM	3.94	4.76	2.21	1.04
	RV	1.80	2.44	0.83	0.58		RV	5.59	2.94	2.35	1.00
	VT	2.07	2.42	1.85	2.26		VT	4.97	6.01	5.59	1.00
Day 3	Control	4.38	4.07	2.11	8.10	Day 3	Control	1.4297	1.82	2.48	3.82
	GV	3.53	3.37	1.51	1.35		GV	0.4438	1.98	0.44	0.31
	RM	1.05	0.22	0.10	0.27		RM	0.3289	0.48	0.44	0.28
	RV	0.73	0.15	0.43	0.14		RV	0.2211	0.19	0.24	0.24
	VT	0.91	2.68	2.45	0.88		VT	0.3550	0.52	0.21	0.32



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