

The Effect of Negative Pressure Wound Therapy with and without Instillation on Mature Biofilms In Vitro

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Table S1. Biocide clinical concentration and concentration used for *in vitro* wound model efficacy testing. Betadine and Prontosan concentration expressed as dilution of commercially available product.

Test Antimicrobials	Clinical Doses	Concentration Tested for <i>S. aureus</i> Biofilm	Concentration Tested for <i>P. aeruginosa</i> Biofilm
Betadine (Povidone-iodine 10%w/v) topical	1/5	1/10	1/10
Prontosan (0.1% Polyhexamethylene biguanide and 0.1% Betaine) topical wash	Neat	Neat and 1/10	Neat
Gentamicin solution	0.5–50 µg/mL	-	1 µg/mL
Rifampicin injectable (8.5 mg/kg)	120 µg/mL (blood conc.)	24 µg/ml	-

Table S2. Mean number of *S. aureus* and *P. aeruginosa* remaining on no treatment coupons and treatment coupons following four instillations of saline or biocide in 24 h with and without application of NPWT. Controls for *S. aureus* is 4.23×10^7 and for *P. aeruginosa* is 2.3×10^7 . Number of samples, $n = 5$. Statistically significant from controls is shown by *, P value $< 0.001 = (***)$, P value $< 0.01 = (**)$, P value $< 0.05 = (*)$.

Treatment	Mean Number of Colony Forming Units (CFU) of <i>S. aureus</i>		Mean Number of Colony Forming Units (CFU) of <i>P. aeruginosa</i>	
	No NPWT	NPWT	No NPWT	NPWT
Nutrition (TSB) Only	2.02×10^8	2.1×10^6	1.97×10^8	1.31×10^8
Saline	5.59×10^7	1.02×10^7	5.53×10^7	7.74×10^7
Betadine 1/10	1.24×10^8	$5.29 \times 10^{5*}$	8.94×10^6	2.51×10^7
Prontosan 1/10	$7.32 \times 10^{4*}$	$8.06 \times 10^{3**}$	-	-
Prontosan neat	$2.14 \times 10^{3**}$	0***	$3.65 \times 10^{4*}$	$2.96 \times 10^{4*}$
Rifampicin	9.58×10^6	1.87×10^6	-	-
Gentamicin	-	-	2.06×10^7	$1.91 \times 10^{6*}$