

Supplemental Digital Content 2. Other Reported Outcome Measures.

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Pocket bacterial burden after NPWTi-d						
ICM scale, mean ± SD	NR	NR	0.76 ± 1.47	NR	NR	NR
Change from baseline	NR	NR	-1.16 (P = 0.002)	NR	NR	NR
Inflammatory markers after NPWTi-d						
CRP (mL/L), mean (range)	NR	NR	15.5 (1.8-34.8)	NR	NR	NR
Change from baseline	NR	NR	-39.8, P=0.0002	NR	NR	NR
Leukocytes (μL), mean (range)	NR	NR	5.83 (3.13-10.17)	NR	NR	NR
Change from baseline	NR	NR	-2.33, P=0.0002	NR	NR	NR
Time to negative culture (days), mean (range)	NR	NR	NR	NR	NR	5.2 (1-14)
Time from prosthesis removal to reinsertion (days), mean (range)- or ± SD	2.3 (1-4.9)	≤7	8.5 (5-14)	N: 10.3 ± 2.8 C: 247.5 ± 111.3 p < 0.001	NR	NR
Return trips to the OR including removal of NPWTi-d	1	NR	NR	N: 3.4 ± 0.8 C: 2.2 ± 0.4 p = 0.006	2.3 (1-4)	3.7 (2-7)
Hospital length of stay (days), mean (range)	4.4 (1-8)	≥7	11.8 (7-16)	N: 11.9 ± 4.1 C: 7.1 ± 5.8 p < 0.004	12 (7-16)	11.5 (6-22)
Office visits, mean ± SD	I: 11 ± 5	NR	NR	N: 12 ± 6	NR	NR

	C: 24 ± 9 p = 0.002			C: 14.2 ± 6.3 p = 0.491		
Hospitalizations	I: 2 ± 1 C: 4 ± 1 p = 0.002	NR	NR	N: 1 C: 2.1 ± 0.3 p < 0.001	NR	NR
Breast satisfaction (Breast-Q Scores)	NR	NR	NR	N: 55.0 ± 14.9 C: 39.7 ± 20.0 p = 0.032	NR	NR
Implant satisfaction (Breast-Q Scores)	NR	NR	NR	N: 6.1 ± 2.1 C: 4.9 ± 1.5 p = 0.061	NR	NR
Complications	I: 2/16 patients had capsular contractures	NR	NR	N: 0 C: 3 cases required flap reconstruction	No complications reported	No record of capsular contracture or recurrent infection
Total Cost of Care	N: Modeled cost reduction of \$6475/patient through reduced office visits (-\$1391) and hospitalizations (-\$5084)	NR	NR	N: £14,343 ± £2,787 C: £8,920 ± £3,006 p < 0.001	NR	NR

NR = not reported; N = NPWTi-d; C = Control; ICM = Institute for Clinical Microbiology