

Table SI. Microbial amount in each group in absolute values of colony-forming units (CFU)/ml

	Untreated control Mean ± SD	PbRf ablation			Thermal control		
		500 ms Mean ± SD	1000 ms Mean ± SD	2000 ms Mean ± SD	500 ms Mean ± SD	1000 ms Mean ± SD	2000 ms Mean ± SD
<i>S. aureus</i>	4.8 <sup>5</sup> ±1.0 <sup>5</sup>	1.1 <sup>3</sup> ±3.6 <sup>3</sup>	0±0	8.3 <sup>1</sup> ±2.9 <sup>2</sup>	3.6 <sup>5</sup> ±5.4 <sup>4</sup>	2.1 <sup>5</sup> ±1.2 <sup>5</sup>	9.9 <sup>3</sup> ±1.3 <sup>4</sup>
<i>S. pyogenes</i>	6.5 <sup>4</sup> ±2.2 <sup>4</sup>	0±0	0±0	0±0	8.7 <sup>4</sup> ±2.0 <sup>4</sup>	1.5 <sup>4</sup> ±9.9 <sup>3</sup>	0±0
<i>E. coli</i> aerobe	7.7 <sup>5</sup> ±1.2 <sup>5</sup>	6.7 <sup>2</sup> ±1.2 <sup>3</sup>	8.3 <sup>1</sup> ±2.9 <sup>2</sup>	8.3 <sup>1</sup> ±2.9 <sup>2</sup>	6.4 <sup>5</sup> ±7.8 <sup>4</sup>	5.8 <sup>5</sup> ±8.7 <sup>4</sup>	9.2 <sup>4</sup> ±5.1 <sup>4</sup>
<i>E. coli</i> anaerobe	5.3 <sup>5</sup> ±5.7 <sup>4</sup>	3.0 <sup>4</sup> ±4.9 <sup>4</sup>	0±0	0±0	4.6 <sup>5</sup> ±5.6 <sup>4</sup>	3.1 <sup>5</sup> ±7.9 <sup>4</sup>	1.5 <sup>4</sup> ±1.3 <sup>4</sup>
<i>P. aeruginosa</i>	6.1 <sup>5</sup> ±1.3 <sup>5</sup>	2.9 <sup>3</sup> ±8.9 <sup>3</sup>	0±0	1.7 <sup>2</sup> ±3.9 <sup>2</sup>	4.8 <sup>5</sup> ±9.0 <sup>4</sup>	3.6 <sup>5</sup> ±1.0 <sup>5</sup>	1.2 <sup>4</sup> ±1.3 <sup>4</sup>
<i>C. albicans</i>	1.0 <sup>5</sup> ±7.7 <sup>4</sup>	2.7 <sup>2</sup> ±6.5 <sup>2</sup>	0±0	0±0	7.1 <sup>4</sup> ±4.7 <sup>4</sup>	2.1 <sup>4</sup> ±2.4 <sup>4</sup>	1.7 <sup>2</sup> ±5.8 <sup>2</sup>

SD: standard deviation; PbRf: plasma-mediated bipolar radiofrequency.

Table SII. Statistical results as p-values for each comparison

	Thermal control (ms)			Untreated control
	500	1000	2000	
<i>S. aureus</i>				
500 ms PbRf	<0.0001	<0.0001	0.0032	<0.0001
1000 ms PbRf	<0.0001	<0.0001	0.00046	<0.0001
2000 ms PbRf	<0.0001	<0.0001	0.00015	<0.0001
Untreated control	0.00090	0.0044	<0.0001	
<i>S. pyogenes</i>				
500 ms PbRf	<0.0001	<0.0001	1	<0.0001
1000 ms PbRf	<0.0001	<0.0001	1	<0.0001
2000 ms PbRf	<0.0001	<0.0001	1	<0.0001
Untreated control	0.037	<0.0001	<0.0001	
<i>E. coli</i> aerobe				
500 ms PbRf	<0.0001	<0.0001	<0.0001	<0.0001
1000 ms PbRf	<0.0001	<0.0001	<0.0001	<0.0001
2000 ms PbRf	<0.0001	<0.0001	<0.0001	<0.0001
Untreated control	0.0060	<0.0001	<0.0001	
<i>E. coli</i> anaerobe				
500 ms PbRf	<0.0001	<0.0001	0.34	<0.0001
1000 ms PbRf	<0.0001	<0.0001	<0.0001	<0.0001
2000 ms PbRf	<0.0001	<0.0001	<0.0001	<0.0001
Untreated control	0.032	<0.0001	<0.0001	
<i>P. aeruginosa</i>				
500 ms PbRf	<0.0001	<0.0001	0.010	<0.0001
1000 ms PbRf	<0.0001	<0.0001	<0.0001	<0.0001
2000 ms PbRf	<0.0001	<0.0001	0.00085	<0.0001
Untreated control	0.0026	<0.0001	<0.0001	
<i>C. albicans</i>				
500 ms PbRf	<0.0001	<0.0001	0.48	<0.0001
1000 ms PbRf	<0.0001	<0.0001	1	<0.0001
2000 ms PbRf	<0.0001	<0.0001	1	<0.0001
Untreated control	0.0027	<0.0001	<0.0001	

PbRf: plasma-mediated bipolar radiofrequency ablation.

Table SIII. Measured exposure times of the Quantum generator

Set time (ms)	Measured time (ms)	
	PbRf ablation mode Mean ± SD	Coagulation mode Mean ± SD
500	499 ± 1	499 ± 0
1,000	1,000 ± 1	999 ± 1
2,000	2,000 ± 0	1,997 ± 2

SD: standard deviation.