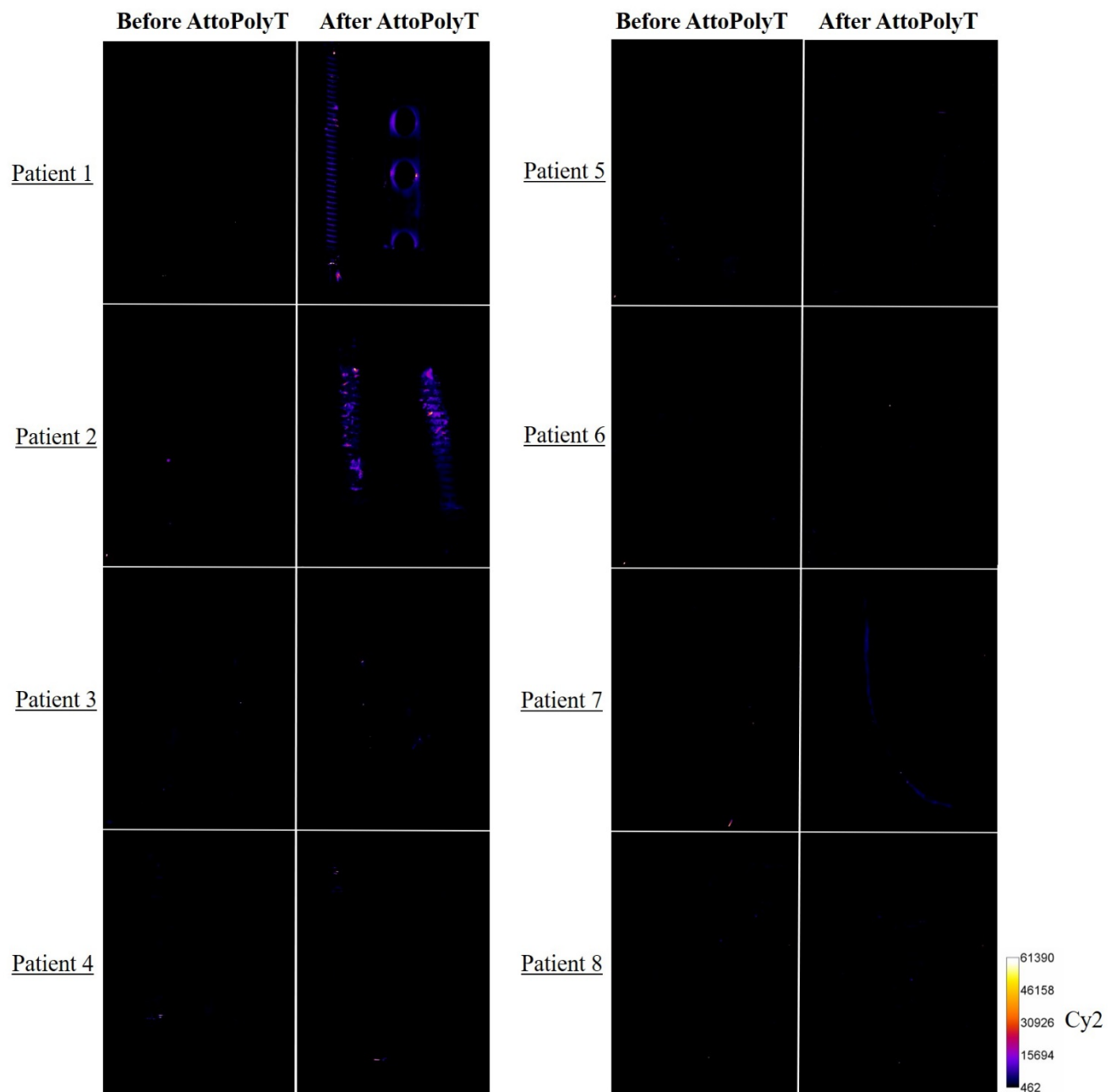


Supplementary Materials

Identified pathogen	T/B ratio
<i>Staphylococcus aureus</i>	3,086957
<i>Staphylococcus aureus</i>	2,253968
<i>Staphylococcus aureus</i>	0,462963
<i>Staphylococcus aureus</i>	0,212871
<i>Staphylococcus aureus</i>	6,599010
<i>Staphylococcus aureus</i>	2,193121
<i>Staphylococcus aureus</i>	8,019802
<i>Staphylococcus aureus</i>	2,321267
<i>Staphylococcus aureus</i>	7,524752
<i>Staphylococcus aureus</i>	0,436170
<i>Staphylococcus aureus</i>	2,000507
<i>Staphylococcus aureus</i>	7,244681
<i>Staphylococcus aureus</i>	17,35106
<i>Staphylococcus epidermidis</i>	0,116883
<i>Staphylococcus epidermidis</i>	0,100000
<i>Staphylococcus epidermidis</i>	0,093333
<i>Staphylococcus capitis</i>	0,080000
<i>Streptococcus agalactiae</i> (group B)	0,093506
<i>Streptococcus dysgalactiae</i>	0,070707
<i>Streptococcus dysgalactiae</i>	0,079208
<i>Streptococcus dysgalactiae</i>	0,117021
<i>Streptococcus sanguinis</i>	0,113861
<i>Enterococcus faecalis</i>	0,095745
<i>Cutibacterium acnes</i>	0,148936
<i>Cutibacterium acnes</i>	0,045455
<i>Parvimonas micra</i>	0,094059
<i>Escherichia coli</i>	0,054455
<i>Campylobacter jejuni</i>	0,129630
<i>Enterobacter cloacae</i> complex	0,084416
<i>Stenotrophomonas maltophilia</i>	0,100000
No growth	0,129630
No growth	0,157407
No growth	0,142857
No growth	0,126667
No growth	0,138614
No growth	0,050505
No growth	0,085859
No growth	0,055556
No growth	0,160000

Supplementary Table S1. Measured average fluorescence target-to-background ratios of the nuclease assays with the AttoPolyT probe on synovial fluids from patients with suspected (prosthetic) joint infections as presented in Figure 3. The listing of identified bacterial species and samples testing negative for bacterial growth ('no growth') from top to bottom corresponds with the graphical representation from left to right in Figure 3.



Supplemental Figure S1. Fluorescence images of extracted osteosynthesis materials (OSMs) before and after incubation with the AttoPolyT probe. Images captured with an Amersham™ Typhoon 5 Biomolecular Imager using the Cy2 filter, PMT 400. On the OSMs of patients 1, 2 and 7 *Staphylococcus aureus* was identified by culture, whereas on the OSMs of patients 3 and 4 other bacteria were identified. From the OSMs of patients 5, 6 and 8 no bacteria were cultured. Please note that the pre-incubation imaging of vancomycin-800CW was previously performed as described by López-Álvarez et al. (15)