**Supplementary Information for:**

**Impacts of Silver Coated Antimicrobial Screen Covers on the Cell Phone Microbiome of Resident Physicians**

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PCR amplifications were performed on the BioRad C1000 Touch™ Thermal Cycler (Applied Biosystems, Foster City, CA, USA) using the following conditions: initial denaturation (3min, 95˚C), and 39 cycles including further denaturation of (15s, 95˚C) and annealing (1m, 64˚C). Purified gBlocks (Integrated DNA Technologies, Illinois, USA) were used to generate the standard curves for this assay.

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| **Gene** | **Forward Primer** | **Reverse Primer** | **Probe** |
| silE | GCATCTTTGCTGGGCTTTG | AGGAGCCTGTGCATTGTT | CCTGGGCCACTGAAACCGTGAATA |
| silRS | AGTCCTTTGACCCTGTGTTC | CTGATGTAAACGGCTGGGATA | CCAAGGGCCGTCAGCAGTAATACC |
| silP | GTCAACGGGTTGTTATTGGTAATG | CATAGATAACGGTAGCGCCTTC | CGTTGCGGATACGTTGCGGATG |
| vanA[1] | GAATCGGCAAGACAATATGA | GGCACTGTTTCCCAATAC | AATTGAGCAGGCTGTTTCGGGCTG |
| tetK | TCTAGCTACAACCACCATAA | GCTGTCTTGGTTCATTGAT | AGTGAAGGGAATGCAGCAGATCCT |
| mecA[2] | GGTATGTGGAAGTTAGATTGG | TCATATGCTGTTCCTGTATTG | TCCAGGAATGCAGAAAGACCAAAGCA |

Note: All sequences are in 5’ to 3’ orientation. The silE, silRS, silP, and tetK primers and probes were designed using sequences uploaded to GenBank. References for the vanA and mecA primers and probes are shown below.

**References for primers and probes**

1. Schwartz, T, Kohnen, W, Jansen, B, Obst, U: Detection of antibiotic-resistant bacteria and their resistance genes in wastewater, surface water, and drinking water biofilms. *FEMS Microbiol Ecol* 2003; 43(3): 325-35.
2. Murakami, K, Minamide, W, Wada, K, Nakamura, E, Taraoka, H, Wanatabe, S: Identification of methicillin-resistant strains of staphylococci by polymerase chain reaction. *J Clin Microbiol* 1991; 29(10): 2240-4.