|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Location** | **Surface** | **Disinfectant** | **Average CFU/cm2 at Each Time Interval** | | | | **P-value** |
| **0 Hours** | **4-6 Hours** | **8-12 Hours** | **24 Hours** |
| Urgent Care | Chair | QAA (n=5) | 0 | 7.4 | 8.6 | 5.5 | 0.89 |
| QAA with CAD (n=5) | 0 | 7.6 | 8 | 4.4 |
| Exam bed/table | QAA(n=3) | 0 | 0.035 | 0.6 | 0.9 | 0.58 |
| QAA with CAD (n=3) | 0 | 0.007 | 0.3 | 0.6 |
| Bed rail | QAA(n=2) | 0 | 0.3 | 3.2 | 1.2 | 0.35 |
| QAA with CAD (n=2) | 0 | 3.3 | 2.1 | 3.8 |
| Sink counter | QAA(n=11) | 0 | 1.5 | 2.5 | 2.1 | 0.44 |
| QAA with CAD (n=11) | 0 | 1.2 | 2 | 0.6 |
| Doorknob | QAA(n=5) | 0 | 5.2 | 5.1 | 3 | 0.58 |
| QAA with CAD (n=4) | 0 | 4.2 | 3.9 | 1.5 |
| Light switch | QAA(n=1) | 0 | 0 | 0.2 | 1.4 | 0.38 |
| QAA with CAD (n=2) | 0 | 0 | 0.1 | 0.1 |
| Triage area counter | QAA(n=6) | 0 | 0.4 | 0.8 | 3.2 | 1 |
| QAA with CAD (n=6) | 0 | 1.1 | 2.1 | 1.2 |
| All surfaces combined | QAA (n=33) | 0 | 3.01 | 3.07 | 2.80 | 0.62 |
| QAA with CAD (n=33) | 0.0061 | 2.51 | 2.84 | 1.48 |
| Outpatient Clinic | Exam bed/table | QAA (n=6) | 0.017 | 0.35 | 0.033 | 0.067 | 0.33 |
| QAA with CAD (n=6) | 0 | 2.33 | 0 | 16.67 |
| Doorknob | QAA(n=6) | 0 | 0.23 | 0.65 | 0.15 | 0.31 |
| QAA with CAD (n=6) | 0 | 1.53 | 1.08 | 0.23 |
| Chair | QAA (n=23) | 0 | 0.11 | 0.14 | 0.58 | 0.99 |
| QAA with CAD (n=23) | 0.0087 | 0.4 | 0.37 | 0.056 |
| All surfaces combined | QAA (n=35) | 0.0029 | 0.17 | 0.21 | 0.42 | 0.27 |
| QAA with CAD (n=35) | 0.0057 | 0.93 | 0.43 | 2.93 |

Table 1. Average colony-forming units (CFU) per cm2 over 24 hours on high-touch surfaces by type and combined in an urgent care and outpatient clinic after disinfection with a quaternary ammonium and alcohol (QAA) disinfectant with or without claims of continuous active disinfection (CAD). P-value corresponds to results of two-tailed t-tests between average surface CFU/cm2 across all intervals for each surface type and for all surfaces combined between both disinfectants in each location.

Table 2. Percentage of high-touch surfaces by type and combined in an urgent care and outpatient clinic with <2.5 colony-forming units (CFU) per cm2 over 24 hours after disinfection with a quaternary ammonium and alcohol (QAA) disinfectant with or without claims of continuous active disinfection (CAD). P-value corresponds to results of two-tailed Mann-Whitney U tests across all intervals for each surface type and for all surfaces combined between both disinfectants in each location.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Location** | **Surface** | **Disinfectant** | **Percentage of HTS with <2.5 CFU/cm2 at Each Time Interval** | | | | **P- value** |
| **0 Hours** | **4-6**  **Hours** | **8-12 Hours** | **24**  **Hours** |
| Urgent Care | Chair | QAA (n=5) | 100 | 40 | 20 | 20 | 0.8831 |
| QAA with CAD (n=5) | 100 | 40 | 0 | 60 |
| Exam bed/table | QAA(n=3) | 100 | 33.33 | 100 | 100 | 0.4533 |
| QAA with CAD (n=3) | 100 | 100 | 100 | 100 |
| Bed rail | QAA(n=2) | 100 | 50 | 50 | 50 | 0.4357 |
| QAA with CAD (n=2) | 100 | 0 | 50 | 0 |
| Sink counter | QAA(n=11) | 100 | 72.73 | 63.64 | 81.82 | 0.6489 |
| QAA with CAD (n=11) | 100 | 72.73 | 72.73 | 100 |
| Doorknob | QAA(n=5) | 100 | 40 | 20 | 40 | 0.2396 |
| QAA with CAD (n=4) | 100 | 75 | 50 | 75 |
| Light switch | QAA(n=1) | 100 | 0 | 100 | 100 | 1 |
| QAA with CAD (n=2) | 100 | 100 | 50 | 100 |
| Triage area counter | QAA(n=6) | 100 | 100 | 100 | 83.33 | 0.6084 |
| QAA with CAD (n=6) | 100 | 100 | 83.33 | 83.33 |
| All surfaces combined | QAA (n=33) | 100 | 66.67 | 66.67 | 68.75 | 0.5516 |
| QAA with CAD (n=33) | 100 | 77.42 | 66.67 | 84.38 |
| Outpatient Clinic | Exam bed/table | QAA (n=6) | 100 | 100 | 100 | 100 | 0.1814 |
| QAA with CAD (n=6) | 100 | 83.33 | 100 | 83.33 |
| Doorknob | QAA(n=6) | 100 | 100 | 100 | 100 | 0.1814 |
| QAA with CAD (n=6) | 100 | 83.33 | 83.33 | 100 |
| Chair | QAA(n=23) | 100 | 100 | 100 | 95.65 | 1 |
| QAA with CAD (n=23) | 100 | 91.30 | 100 | 100 |
| All surfaces combined | QAA (n=35) | 100 | 100 | 100 | 97.14 | 0.2059 |
| QAA with CAD (n=35) | 100 | 88.57 | 97.14 | 97.14 |