

## Hospital Room Study shows 8 week 238% Bioload reduction using PreventX 24/7 versus untreated

### STUDY DESIGN

To determine if PreventX 24/7 can prevent and reduce Bioload, 2 hospital rooms within the same ward were chosen. One (room 202-1) was treated with PreventX 24/7 and the second (room 225-1) was not. These rooms were occupied throughout the entire 8 weeks study. High touch points from each room; the TV remote, TV Handle, Door Handle, toilet handle, and soap dispenser, were tested in both rooms throughout the 8 weeks. Normal cleaning regimen was followed during the length of the study with no further treatment with PreventX 24/7. Testing was performed in the AM and PM to encompass cleaning cycles.

### RESULTS

The cumulative data for all 8 weeks for all 5 sites within each room are as follows (Cumulative ATP Counts, expressed as Relative Fluorescence Units, RFU, from the 2 rooms sites using Hygiena Ultra Snap Vials):

|                   | Room 225-1<br>Untreated | Room 202-1<br>Treated | Percent<br>Difference |
|-------------------|-------------------------|-----------------------|-----------------------|
| Total AM Readings | 4484                    | 1867                  | 238%                  |
| Total PM Readings | 3578                    | 1250                  | 283%                  |
| Week 8 reading    | 1566                    | 358                   | 437%                  |

The study was performed by PreventX 24/7 scientists following Hygiena Ultra Snap testing requirements.

### Discussion

Over the course of 8 weeks, the hospital room that was treated with PreventX 24/7 experienced Bioload levels 230% lower than the untreated room. At the 8-week data points, the treated room was 437% lower in Bioload than the Treated.

The long-term efficacy of PreventX 24/7 antimicrobial coating, is evident in the test data. Bioload reduction in a hospital setting, can be critical in prevention of Hospital Acquired Infections and reducing employee lost time.

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Raw data collected from July 2017 to September 2017

|          | UNTREATED        |                  |                     | TREATED          |                  |                     | Total percent Difference<br>225-1 vs 202-1 |
|----------|------------------|------------------|---------------------|------------------|------------------|---------------------|--|
|          | Room 225-1<br>Am | Room 225-1<br>Pm | Total Room<br>225-1 | Room 202-1<br>AM | Room 202-1<br>PM | Total Room<br>202-1 |  |
| Week 1-1 | 719              | 187              | 906                 | 201              | 61               | 262                 | 345.8                                      |
| Week 1-2 | 353              | 337              | 690                 | 97               | 19               | 116                 | 594.8                                      |
| Week 2-1 | 390              | 50               | 440                 | 544              | 453              | 997                 | 44.1                                       |
| Week 2-2 | 279              | 268              | 547                 | 1                | 0                | 1                   | 54700.0                                    |
| Week 3-1 | 18               | 50               | 68                  | 23               | 0                | 23                  | 295.7                                      |
| Week 3-2 | 126              | 67               | 193                 | 16               | 0                | 16                  | 1206.2                                     |
| Week 4-1 | 170              | 130              | 300                 | 10               | 30               | 40                  | 750.0                                      |
| Week 4-2 | 965              | 179              | 1144                | 18               | 51               | 69                  | 1658.0                                     |
| Week 5-1 | 661              | 286              | 947                 | 47               | 41               | 88                  | 1076.1                                     |
| Week 5-2 | 43               | 38               | 81                  | 222              | 7                | 229                 | -35.4                                      |
| Week 6-1 | 51               | 30               | 81                  | 61               | 3                | 64                  | 126.6                                      |
| Week 6-2 | 55               | 32               | 87                  | 84               | 48               | 132                 | -65.9                                      |
| Week 7-1 | 177              | 487              | 664                 | 267              | 27               | 294                 | 225.9                                      |
| Week 7-2 | 99               | 249              | 348                 | 82               | 362              | 444                 | -78.4                                      |
| Week 8-1 | 135              | 1118             | 1253                | 115              | 147              | 262                 | 478.2                                      |
| Week 8-2 | 243              | 70               | 313                 | 95               | 1                | 96                  | 326.0                                      |
| Total    | 4484             | 3578             | 8062                | 1867             | 1250             | 3133                | 257%                                       |

Value reflected in Relative Fluorescence Units (RFU) as measured by Hygiena Luminometer with Ultra Snap Vials