

23rd August 2021

UV Suraxa® Performance Validation

We have tested the PIPL developed UVC disinfection unit, **UV Suraxa®** at Jehangir Hospital against few clinical strains of bacteria. The preliminary data analysis across all strains tested shows a consistent 3+ log (99.9 %+) reduction within 90 seconds of exposure in **UV Suraxa®**.

Some of the tested bacteria include the ATCC strains and few of the “ESKAPE pathogens” Extreme Drug Resistant (XDR) strains, which are known causes of nosocomial (HAI) infections

- Vancomycin Resistant Enterococcus faecium (**VRE**)
- Methicillin-resistant Staphylococcus aureus (**MRSA**)
- Klebsiella pneumoniae XDR
- Acinetobacter baumannii XDR
- Pseudomonas aeruginosa XDR

In addition, we performed swab study taken from areas surrounding patients like **Bed rails** and from **Monitors**. Also, we took a few representative swabs from **ID Cards** and **Mobiles** of the on-call medical staff, and visiting staff. In those cases where the sample showed a bacterial colony presence before exposure, we saw a significant reduction within 90 second exposure in **UV Suraxa®**.

Though the numbers were small, our preliminary testing shows that **UV Suraxa®** is capable of killing bacterial strains mentioned above and may be used as an effective disinfection device for small items used in patient care.


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