

Evaluation of the Novaerus Technology in an Ophthalmology Operating Room

One Novaerus Protect 800 (NV800) unit was installed in an Ophthalmology Operating Room in Ain Shams University in Cairo, Egypt.

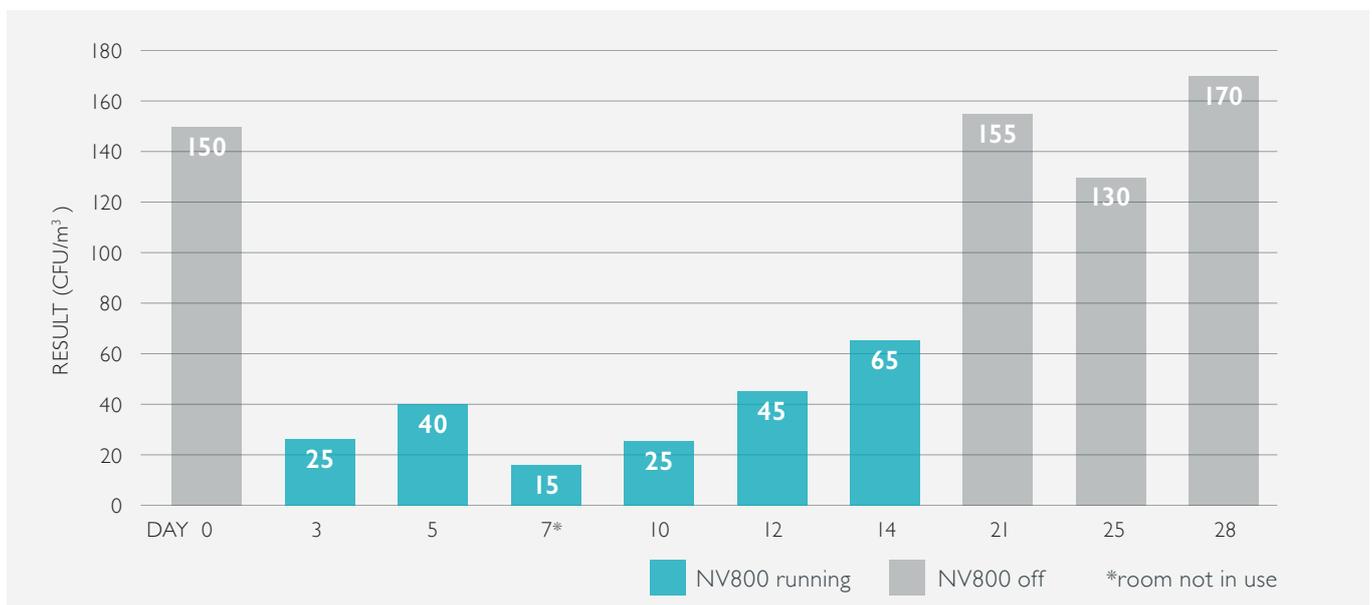
Objective: To assess the effect of the Novaerus Protect 800 (NV800) in reducing the presence of *Staphylococcus aureus* bacteria in an Ophthalmology Operating Room.

Methodology: The air disinfection unit was installed in a 73.5m³ room with a split air conditioning system. The room was disinfected with hydrogen peroxide daily, with ordinary cleaning performed once weekly. Bacteria colonies were measured by M.A.Q.S.II Air Sample using the MAQ System. Samples were taken in the morning.

Pre-trial colony readings were 200 CFU/m³ in the used room and 50 CFU/m³ in the empty room.

The trial was carried out over a 28-day period, with the Novaerus air disinfection unit running continuously, 24 hours a day over a two-week period.

Results: Results from the samples taken before, during and after the Novaerus Protect 800 (NV800) was turned on and off are shown below.



The Novaerus air disinfection unit caused no increase in the temperature of the room nor the sound in the room, indicating that the unit is compatible with a surgical room.

The Novaerus air disinfection unit proved efficacy in reducing the bacterial colony count in both the rooms that were being used and those that were empty.

Recommendation: The Novaerus Protect 800 (NV800) shows a remarkable decrease in the bacterial air colony count in an operating room.