

Sheba Medical Center Pilot

March 2020

Overview

We are honored to take part in the Sheba Medical Center pilot, and target the health of hospital staff and patients.

Moreover, during this sensitive time in which the disease (COVID-19) has affected the whole world, we at Aura, believe that our device can help alleviate and treat infected air.

Aura aims on providing a comprehensive solution for improving and managing the air quality in one of Sheba Medical Center's departments, while increasing awareness of outdoor air quality. The pilot will be executed through an interactive data-based experience providing reports and insights.

August 13, 2019

<u>Letter of Intent:</u> Collaboration between Aura Smart Air Ltd. (515816114) to Surgical Department C, Sheba Medical Center.

Following the challenge we face with infections in the hospital, representatives of Aura Smart

Air Ltd. contacted us, claiming that they could improve the current indoor air quality by

disinfecting the purifying the air using the technology they developed.

After several meetings that included reviewing Aura Smart Air's technology, a tour in the department, and air samples conducted at the facility; We believe there is a great potential for collaboration. We agreed to hold a pilot in the operating rooms and department rooms, with the ambition to look at improving air quality and dealing with the infections in the hospital.

Best regards,

Professor Aviram Nissan

Director of Surgical Department C

Sheba Medical Center

"In American hospitals alone, the Centers for Disease Control (CDC) estimates that Healthcare-acquired infections (HAIs) account for an estimated 1.7 million infections and 99,000 associated deaths each year."



Use Case 02/07

The Pilot

Schedule

Phase 1: Measurement

Since February 12th at 12:00 PM, the device was installed in the Surgery C-General and Oncology Department in Sheba Medical Center. We measured the following parameters: VOC, CO2, PM 2.5, PM10, CO, temperature, humidity and AQI, to provide a comprehensive report.

Phase 2: Measurement and Treatment

Starting March 19th, the device will be installed with the purification and disinfection components.

Schedule:

Phase 1	End of phase 1	Phase 2	End of phase 2
Installation and	Comprehensive Report	Full Operation	Feedback & Summary



Use Case 03/07

Our Claim

(Based on the Aura Air white paper)

The efficiency of the Sterionizer in removing different types of pollutants is presented in Table 2.

Table 2- Sterionizer efficiency tests

Substance	Substance name	Removal
	Escherichia Coli	99%
Bacteria	Escherichia Coli ATCC	91%
	Staphylococcus aureus	91%
	Pseudomonas aeruginosa	99%
	Staphylococcus aureus (MRSA)	99%
	Aspergillus Niger	97%
Fungus	Candida albicans	36%
	Dichobotrys abundans	90%
	Penicillium	95%
Mold	Cladosporium cladosporioides	97%
Spores	Spores Bacillus subtilis var Niger	
Viruses	Influenza H1N1	99%
	Influenza H5N1	99%

Table 2 shows that the Sterionizer decreased the amounts of bacteria for at least 1 order of magnitude (more than 90%) for all the strains tested. It also decreased the amounts of fungus for at least 36% and the amounts of mold, spores, and viruses for at least 89% for all the tested strains.

Examples of the plates after incubation are presented in Figures 12-13:

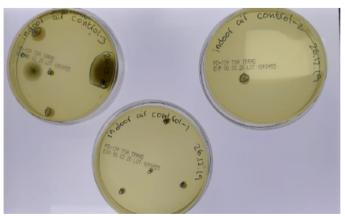


Figure 12: incubation results of the control plates on December 31st, 2019



Figure 13: incubation results of the Ray filter+ Sterionizer+ UVc LEDs plates on December 31t, 2019

Use Case 06/07

Past Pilot Results

Hilton Hartford, Connecticut

Guest Room

PM 2.5 ↓ 42% µg/m³

PM 10 ↓ 8% μg/m³

VOC ↓ 31% ppb





Lexington Hartford, Connecticut

Residential Apartment

PM 2.5 ↓ 82% µg/m³





Shelbourne Hartford, Connecticut.

Conference Room

PM 2.5 ↓ 33.3% µg/m³

VOC ↓28% ppb





Method of Action



PM 2.5

PM 2.5 levels were decreased as a result of the Ray Filter's HEPA layer



PM 10

PM 10 levels were decreased as a result of the Ray Filter's HEPA layer



VOC

VOC levels were decreased as a result of the Ray Filter's Carbon layer



AQI

AQI decreased as a result of the Ray Filter, the UVC LED and the Sterionizer

Use Case 07/07