BE UV CLEAN

SIMPLE

AFFORDABEL

FAST

EFFECTIVE

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UV-C TOWER

Kills 99.9% of Germs

UVC Blast deactivates Coronavirus

*Published Scientific Literature

Aditsa Healthcare Pvt Ltd **+91 9301736803**

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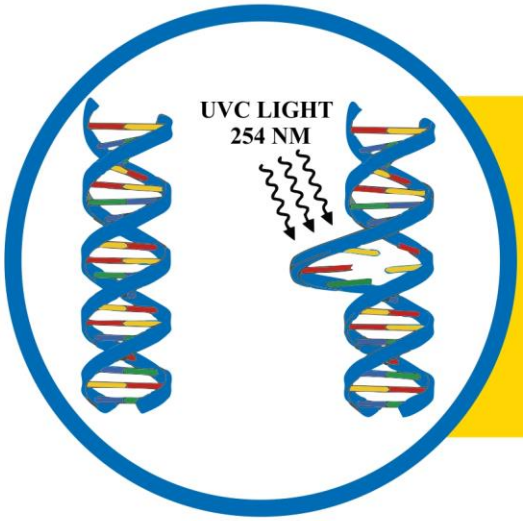
UV-C TOWER

Simple – Afforadable – Fast – Effective

Vital Tool for Assuring Infection Free Area



Aura UVGI Towers emits UVC light to zap the bacteria, virus & other Pathogens. Wavelength of around 253 nm is emitted to destroy DNA of various pathogens by producing thymine dimers which can kill or deactivate the organisms.

Salient Features

360 degree disinfection

One Touch Operation

No Corrosive Chemicals, Gases or Residue

Custom Duration Selection

Easy Portability

Silent Operation

Effective against Human Coronavirus

*Published Scientific Literature

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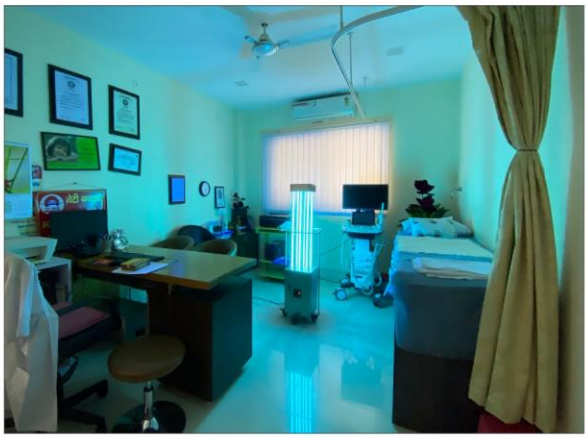
Areas of Application

Office Spaces

Clinics & Hospitals



Dental Clinics

Schools, Hotels & Restaurants, Theatres, Malls, Departmental Stores & Public Transport

Performance Validated by Third-Party Laboratory

Testing Distance and Time: 8 feet, 5 minutes

	Pathogens	Duration	Kill Rate
BACTERIA	Staphylococcus epidermis Escherichia coli Carbapenem-resistant Escherichia coli (CRE) Vancomycin-resistant Enterococcus faecium (VRE) Listeria monocytogenes Methicillin-resistant MRSA Mycobacterium bovis Bordetella pertussis Pseudomonas aeruginosa Salmonella enterica Staphylococcus aureus	< 5 minutes	> 99.99%
VIRUS	Poliovirus Adenovirus Norovirus Coronavirus Syncytial virus Rhinovirus Rotavirus Herpes virus Influenza(H1N1) Hepatitis A Hepatitis C	< 10 minutes	> 99.99%

KILLS more than **30** HAI-causing pathogens in **5 minutes at 8 feet.**

Including:

- 4-log reduction of *C. difficile* spores
- Greater than 5-log reduction of over 20 pathogens, including MRSA, VRE and CRE

Research publications for UVC

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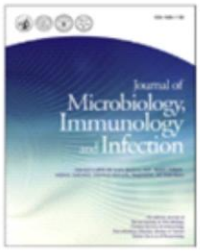
Journal of Microbiology, Immunology and Infection (2019) 52, 487–493

Available online at www.sciencedirect.com

ScienceDirect

journal homepage: www.e-jmii.com



Original Article

Effectiveness of an ultraviolet-C disinfection system for reduction of healthcare-associated pathogens

Jui-Hsuan Yang [a], Un-In Wu [a], Huei-Min Tai [a], Wang-Huei Sheng [a,b,*]

Abstract *Background:* Healthcare-associated infections caused by multidrug-resistant (MDR) pathogens are significantly associated with increased mortality and morbidity. Environmental cleaning can reduce transmission of these pathogens but is often inadequate. Adjunctive methods are warranted to enhance the effectiveness of disinfection particularly in hospital settings where healthcare-associated infections are of major concern.

Methods: We conducted a study to examine the effectiveness of a mobile, automatic device, Hyper Light Disinfection Robot (model: Hyper Light P3), which utilized ultraviolet-C (UV-C) to kill MDR-*Pseudomonas aeruginosa*, MDR- *Acinetobacter baumannii*, methicillin-resistant *Staphylococcus aureus* (MRSA), vancomycin-resistant *Enterococcus faecium (*VRE), *Mycobacterium abscessus* and *Aspergillus fumigatus*. The performance of this device in disinfecting hospital rooms previously admitted by patients harboring MRSA and VRE was also assessed.

Results: Except for VRE and *M. abscessus*, more than 3 $\log_{10}$ reduction of vegetative bacteria colonies was observed after UV-C irradiation of 5 min at a distance of 3 m from the device. At the distance of 1 m, substantial and comparable reduction of colonies was observed across all tested microorganisms regardless of exposure time. The killing effect was less pronounced for *A. fumigatus* particularly at the distance of 2–3 m. In uncleaned hospital rooms, there was significant reduction in the number of bacteria colonies sampled from different surfaces after UV-C irradiation for 15 min.

Conclusions: UV-C disinfection system was effective in killing MDR pathogens. Further study is warranted to confirm its effectiveness as an adjunctive method in disinfecting hospital environment.

Research publications for UVC

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Ultraviolet Light Sanitizers and Coronavirus (COVID-19)

How UV Light Kills Germs

UV radiation kills viruses and bacteria by damaging their genetic material (DNA and RNA). Of the three main types of UV light, UVC (which has a wavelength range of 200 to 280 nm) is the most effective for inactivating viruses, with the most effect wavelength being about 260 nm (Lytle, J Virol 2005).

In order to be effective, the right "dose" of UVC must be applied. The dose is a function of the UVC intensity or "irradiance" from a specific distance from the object times the number of seconds the object is exposed. Irradiance is measured in milliwatts (mW) per square centimeter (cm^2), and the dose of UVC is measured in millijoules (mJ) per square centimeter (cm^2) of the object being irradiated. (In scientific terms, 1 mWs/cm^2 =1 mJ/cm^2).

PURPLESUN

2020 COVID-19 Coronavirus Ultraviolet Susceptibility

Confirmation That Ultraviolet is Effective

Ultraviolet light can be an effective measure for decontaminating surfaces that may be contaminated by the SARS-CoV-2 virus by inducing photodimers in the genomes of microorganisms. Ultraviolet light has been demonstrated to be capable of destroying viruses, bacteria and fungi in hundreds of laboratory studies (Kowalski 2009). The SARS-CoV-2 virus has not yet been specifically tested for its ultraviolet susceptibility but many other tests on related coronaviruses, including the SARS coronavirus, have concluded that they are highly susceptible to ultraviolet inactivation. This report reviews these studies and provides an estimate of the ultraviolet susceptibility .

Research publications for UVC

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UVDI
UltraViolet Devices, Inc.

News Release · March 2020

How Does UV Air Disinfection Help Combat Coronaviruses?

Coronavirus is highly susceptible to germicidal UV irradiation. The table below shows that the susceptibility of coronavirus to UV is greater than 3 times compared to the influenza (common cold) virus.

Airstream Disinfection			
Microbe	**Type**	**Diameter**	**UV Dose for 90% Reduction**
		μm	μJ/cm^2
Coronavirus (incl. SARS)	ssRNA	0.11	**611**
Influenza A virus	ssRNA	0.098	**1935**

Ref: Walker, Chris & Ko, Gwangpyo. (2007). Effect of Ultraviolet Germicidal Irradiation on Viral Aerosols. Environmental science & technology. 41. 5460-5

RESEARCH ARTICLE *Virology*

Far-UVC light efficiently and safely inactivates airborne human coronaviruses

Manuela Buonanno, David Welch, Igor Shuryak, David J. Brenner

DOI: 10.21203/rs.3.rs-25728/v1

Abstract

A direct approach to limit airborne transmission of pathogens is to inactivate them within a short time of their production. Germicidal ultraviolet light (UV), typically at 254 nm, is effective in this context, but it is a health hazard to the skin and eyes. By contrast, far-UVC light (207-222 nm) efficiently kills pathogens without harm to exposed human cells or tissues. We previously demonstrated that 222-nm UV light efficiently kills airborne influenza virus (H1N1); here we extend the far-UVC studies to explore efficacy against human coronaviruses from subgroups alpha (HCoV-229E) and beta (HCoV-OC43).

ScienceDaily
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Science News *from research organizations*

Ultraviolet LEDs prove effective in eliminating coronavirus from surfaces and, potentially, air and water

Date: April 14, 2020
Source: University of California - Santa Barbara

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UVC Tower Variants

	RV	6T	4T
Lamp Power	600	300	200
Lamp Size	48"	33"	33"
UV Irradiance	1128uW @ 1 Meter	846uW @ 1 Meter	564uW @ 1Meter
Controller	Human Machine Interface	Progameable Logic Controller	Progameable Logic Controller
Portability	Remote Operated	Manual	Manual
Dimensions in Foot	6*1*2	4*1*1.6	4*1*1.6
Suitable for Area	25*25	15*15	8*8

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Vidya Nagar,
Bhopal,
Madhya Pradesh
462026

Warranty

One Year Warranty on Lamps, Electronics & Mechanical Parts.
Note:
1: Based on 8 hours usage per day
2: No warranty for Physical damage

Customer Support

On Call Support M-F:10am - 5pm
Free One time on location training.
Usage Videos & Documents.
Cleaning Protocol Development Support.
Advance New Product Launch Communication.

CAUTION

UV RADIATION HAZARD

Protect eyes & skin from exposure to UV Light.