

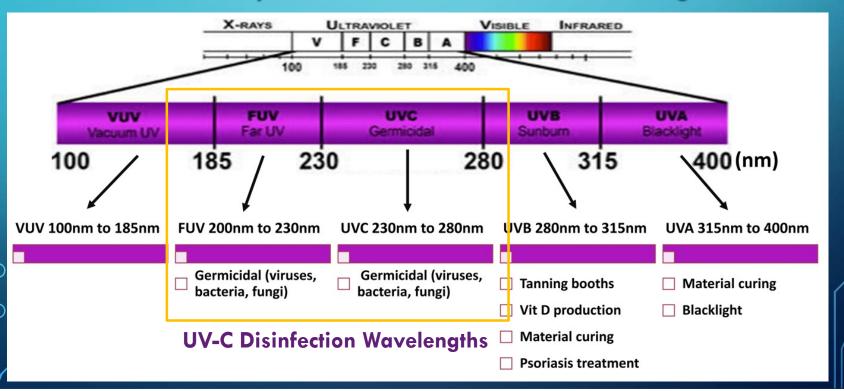


PRESENTED BY
THE INTERNATIONAL ULTRAVIOLET ASSOCIATION
HEALTHCARE/UV WORKING GROUP
11 MARCH 2022



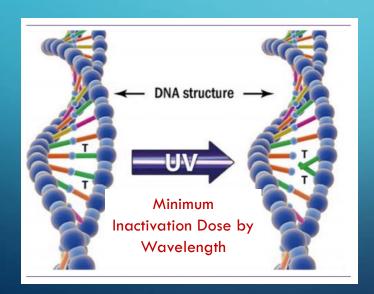


Ultraviolet Physics Basics – Which Wavelengths Matter 🗅



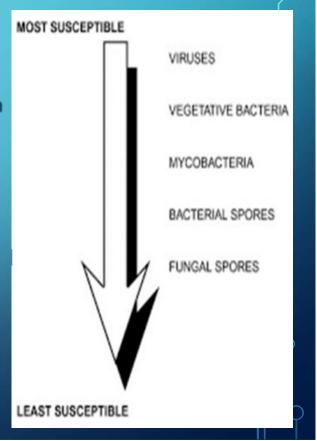
Ultraviolet Disinfection Basics

- ✓UV-C disrupts a Pathogen's DNA & RNA,
 so, they can't reproduce.
- ✓ Disruption depends on Wavelength, Dose & Pathogen













COVID-19 Related Developments

Renewed Emphasis on Airborne Pathogen Control & Disinfection

- Time Magazine Article "If We're Going to Live With COVID-19, It's Time to Clean Our Indoor Air Properly" 1 Feb 2022 Dr. E. Nardell, Harvard (https://time.com/6143799/covid-19-indoor-air-cleaning/)
- W.H.O. Webiner "Disinfection using Ultraviolet Radiation" 17 Dec 2021 Nardell (https://who.zoom.us/rec/share/jJ-g1XfEdxMHIE9UalhXIFZ8fQvDLtrpfThW9QpH3m0dgdlxsRKIZHt0pWpJtUC.VXXhGvIX4EvLX41W Passcoder 0@wQtVC\$)

70+ Upper-Air UV-C Disinfection Units currently listed on Amazon

 Mainly Traditional 254nm Hg, also 265nm-280nm LEDs and 222nm Excimers



• Available in both Wall & Ceiling Mounts; Uses Standard Electrical Power

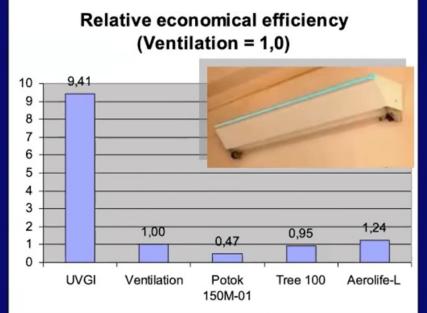




COVID-19 Related Developments

Upper Room GUV Disinfects a Large Volume of Air at Once





From presentation by Dr. E. Nardell, Harvard, W.H.O Webinar 17 Dec. 2021

IUVA HEALTHCARE WORKING GROUP



Benefits of UV Deployments

- Can Work Well in Occupied Spaces
 - Less Risk of Spreading Airborne Pathogens
 - Studies Underway on
 - -- Absenteeism in Schools, Offices, etc.
 - -- Preventing the Next Pandemic & MDRO's
 - -- Reduced Hospital Loads
- Easily Retrofitted to Supplement Existing Building Systems
 - Stand-Alone Filters
 - Supplemental In-Duct Units after HEPA Filters
 - Upper Air & Whole Room
 - Not Recommended: UV WANDS

Deployment Example

Bluestone Lane, NY coffee shop







From presentation by Dr. E. Nardell, Harvard, W.H.O Webinar 17 Dec. 2021



ULTRAVIOLET ASSOCIATION

Our Group is a Knowledgeable, Accessible & Highly Collaborative Resource

- > 140+ members, 15+ Countries
- Monthly Calls: 25-30 callers; 1 hr/call 2-5 New Attendees Each Month 10-15 Presenters in each call
- Next Call 17 March @ 2pm EST; focus – Standards & Collaboration
- You're invited to Join us

It's All About Saving Lives