

UV ROOM DISINFECTION: Effectiveness Against SARS-CoV-2, Variants and High-Risk MDROs



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OVERVIEW

As healthcare systems continue to combat COVID-19, and the ongoing risk posed by Multidrug-Resistant Organisms (MDROs), ultraviolet (UV) room disinfection can be a valuable tool for enhanced environmental hygiene and surface disinfection. In implementing UV room disinfection, it is key for healthcare professionals to ensure a specific UV device is truly effective against SARS-CoV-2 and its variants, as well as a broad spectrum of high-risk microorganisms including *C. difficile* spores, MRSA, *Candida auris* and CRE/VRE. This program will review (1) the basics of how UV room disinfection devices inactivate microorganisms (2) the germicidal UV dose delivery required to achieve broad spectrum efficacy and (3) the basics for evaluating and decoding UV device manufacturers' claims and support, which can vary greatly.

OBJECTIVES

After completing this continuing education activity, the healthcare practitioner should be able to:

1. Summarize how UV room disinfection devices inactivate common healthcare pathogens.
2. Review the relative UV dose delivery required for broad spectrum efficacy against high-risk pathogens, including SARS-CoV-2, *C. difficile*, MRSA and CRE/VRE.
3. Evaluate UV room disinfection device efficacy claims accurately.

INTENDED AUDIENCE

The target audience includes infection preventionists, nurses and other healthcare professionals who are interested in learning more about enhanced environmental hygiene and ultraviolet disinfection devices.

ACCREDITATION INFORMATION

California Board of Registered Nursing

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