

HAIs • SSIs

in Operating Rooms of Public and Private Hospitals, VAs and ASCs

Problem:

How can the air, and surfaces, be cleaned to lower the risk from the usual suspects?



American Ultraviolet®

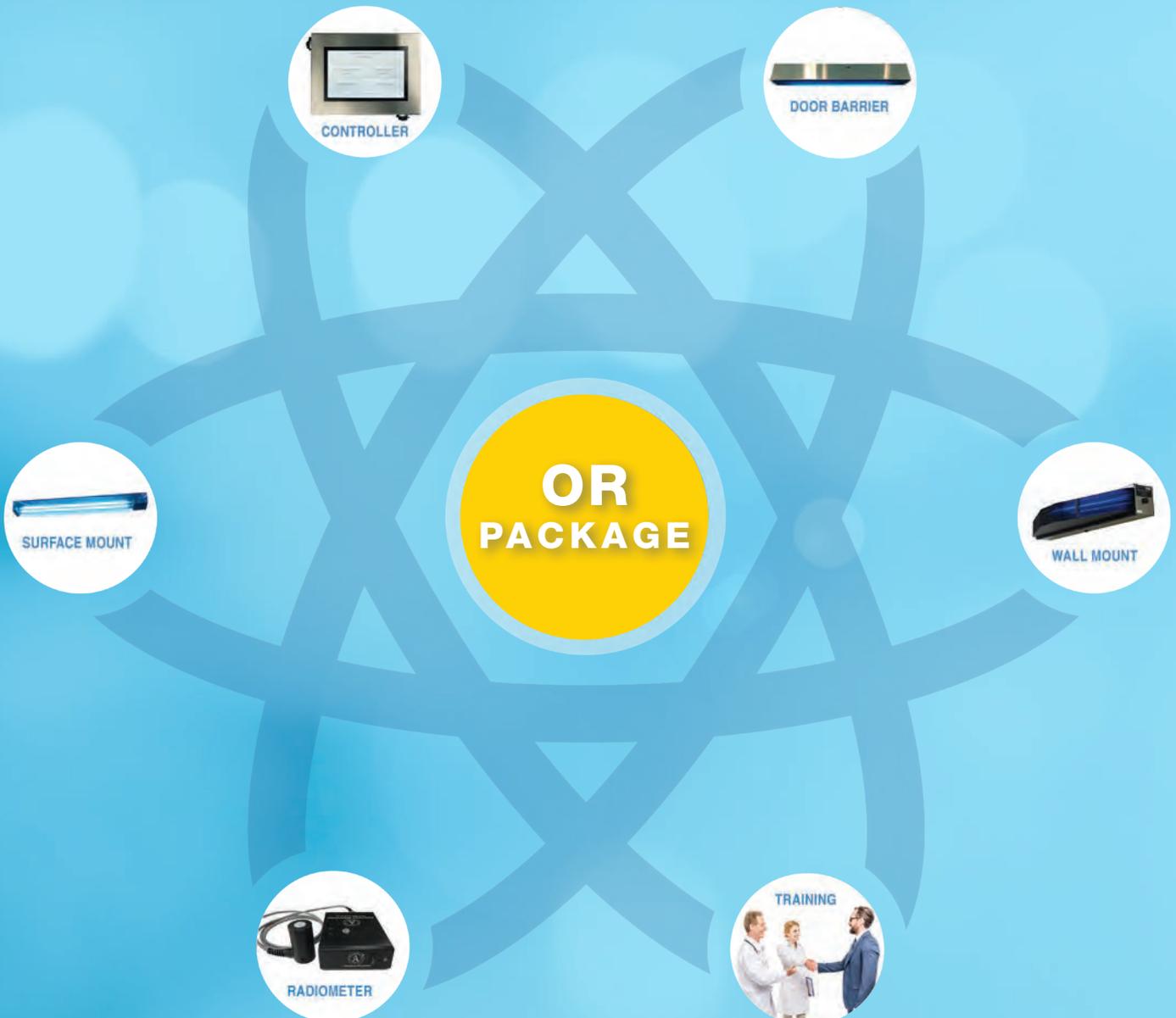
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Solution:

The American Ultraviolet UVC OR Package

Reduce HAIs and SSIs in your OR by using a Permanent Solution

- Eradicate MDRO's 24/7/365
- Fastest Cycle Time
- No Additional Staff
- Protect Patients and Staff
- Improve Terminal Cleaning
- Avoid Unnecessary Costs



OR Package

Permanently placed UVC fixtures are available 24/7/365, and can disinfect an OR in less than 10 minutes.



OR Package components include a touchscreen controller, radiometer, indirect wall-mounted fixtures, direct surface-mounted fixtures, door barrier fixtures, warning signs, safety shields, and staff training.



Why UVC for the OR?

Studies as far back as 1937, and as recent as 2017, report the effectiveness of ultraviolet light in reducing very costly post-surgical infection rates. And, with health insurance no longer covering healthcare associated infections, proactive hospitals, VA's and ASC's can avoid significant monetary waste by investing in proven technology that will reduce infections.

Why the American Ultraviolet OR Package:

Since the early 1970's, American Ultraviolet has provided healthcare professionals with 1,000+ OR packages that reduce the threat of microbiological contamination by continuously disinfecting the wound surface, and the environment around the patient. Unlike a mobile unit, the UVC OR Package is permanently installed in your most critical environment – the OR – and is therefore always present and available for use.



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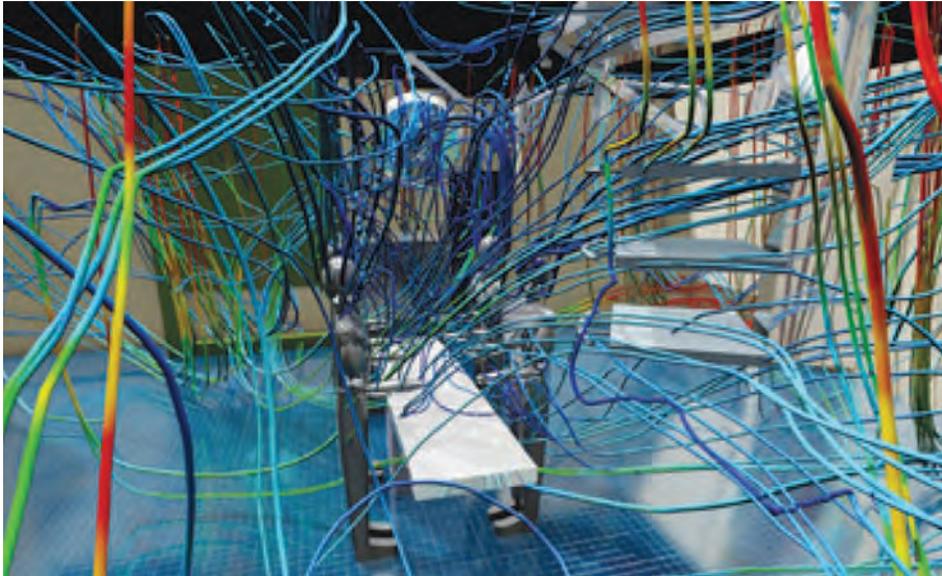
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Testing

“We’ve experienced great success in reducing HAIs and SSIs with our UVC OR Package. And we’re excited about the newest upgrades.”

John Lewis, RN, CNOR, BS, MS
Director of Surgical Services
Evangelical Community Hospital

Irradiating the air and surfaces with safe and effective UVC energy before, during, and after a procedure has been shown to reduce post-operative infections. An infection at the site of a surgical wound is a complication that prolongs recovery times for patients, and can be fatal.



The sample illustration shows a CFD (Computational Fluid Dynamic) model of the air flow patterns in a typical OR.

Image courtesy Machine Design® magazine.

Roughly 290,000 patients every year contract infections while undergoing surgery, according to the Centers for Disease Control and Prevention. The CDC also reports that SSIs represent 20% of all health care acquired infections (HAIs), and the Center for Healthcare Design (CHD) estimates that more than 30% of SSIs are caused by airborne pathogens.

The primary sources of bacteria transmitted to the surgical site through the air are squames, or skin scales. Approximately 1.15×10^6 to 0.9 to 10^8 squames are generated in a typical two to four hour surgical procedure, according to a study published by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).

Full and complete coverage is provided by the hard-mounted UVC OR package. Shadowed areas are minimized or eliminated, and only one cycle is required for full disinfection.

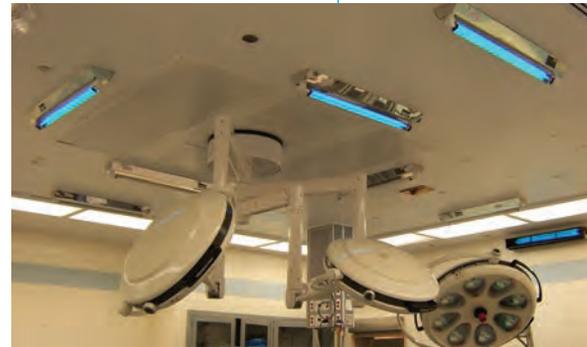


Studies



Visit auvhealthcare.com to view independent studies about using UVC in the Operating Room

Please visit our website to review articles from as far back as 1935, in publications that include The Journal of Bone and Joint Surgery, the American Academy of Orthopedic Surgeons, and Annals of Surgery. Studies address topics that include using UV light during orthopedic surgery; benefits of using UV in the OR; and using ultraviolet light to reduce unexplained infections in a clean wound.



Safety



UV in Use Warning Signs

Bold, visual, in-use warning signs are illuminated to alert personnel entering the operating theater that direct UV light is being used in. Also, every UVC fixture in the room has its own Motion + IR sensor – if they were to “see” motion, or sense heat, all fixtures will immediately shut down.

Safety Face Shields

UV-resistant, optically-clear, full face shields come with each OR package. When used in conjunction with a head sock, this piece of PPE provides complete coverage for the head and neck.



“We have been using the American Ultraviolet OR package for more than 10 years. It’s simple to use, extremely effective, and very user-friendly. I recommend it to any hospital trying to control infections.”

Park Sterling Hospital
Lafayette, Louisiana

Other Healthcare Solutions from American Ultraviolet:



Data-logging, touch tablet-controlled ARTZ®, and smaller MRS units, provide affordable, efficient, and effective disinfection solutions throughout all healthcare environments.



Since 1960 American Ultraviolet has provided healthcare institutions with UV germicidal disinfection solutions designed specifically to control the spread of airborne microorganisms and bio-aerosols.



Custom and standard in-duct, on-coil, and in-room UV solutions increase efficiency, prolong equipment life, and improve indoor air quality throughout entire buildings.



AQ Series UV water treatment units, with flow rates from - 2-1,000 gallons per minute, safely and effectively purify water in commercial and residential applications.



The handheld, portable UVC Blade disinfection device, deactivates bacteria, viruses and fungi in spaces where traditional hard-mounted UVC fixtures are inconvenient to be mounted; and where portable devices have limited access.



UVC Dosimeters™ are safe, efficient tools used to verify UVC exposure of a surface, or instrument, in healthcare environments - the perfect compliment to mobile UVC systems, and the OR Package.



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