Whole Room Decontamination

Minimising the risk of a patient acquiring a Hospital Associated Infection (HAI) is a vital part of any infection prevention and control strategy, with surfaces being a common vector of transmission for dangerous pathogens.

Whole room decontamination breaks the chain of infection in providing a hygienically clean environment, reducing the chance of microbes which limits the spread of infection; in turn, improving the efficiency of patient turnover.

The Risk of Infection

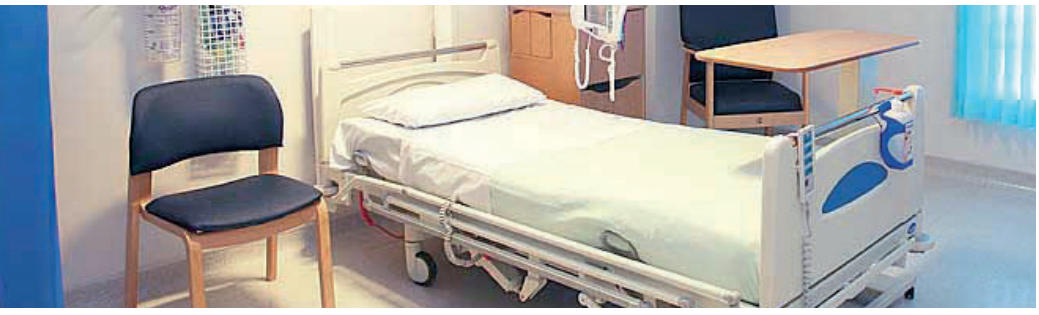
Several infections including MRSA, Vancomycin-resistant enterococci (VRE) and Clostridium difficile are all known to survive on surfaces and can be transmitted simply by touch. Evidence has also shown that the risk of acquiring one of these infections is higher if a new admission is placed in a room previously occupied by a patient infected with one of these pathogens.

But these are not the only concerns. Carbapenem-Resistant Enterobacteriaceae (CRE), Carbapenemase Producing Enterobacteriaceae (CPE) and norovirus are also able to survive on surfaces and can be transmitted in exactly the same way. For this reason, effective cleaning has become a stalwart in the prevention and control of HAIs.

The Inefficiency of Manual Cleaning

Manual cleaning is an essential component in an effective infection prevention and control strategy, however disinfectant-based cleaning products may be ineffective in controlling microbial and viral pathogens such as MRSA and norovirus.

Manual cleaning alone cannot provide the assurance that the reduction of pathogens reaches safe levels. This is often a result of unavoidable human error but also as a result of the fact that the effectiveness of this method of cleaning is difficult to measure. As a result of the inefficiency of manual cleaning, new approaches have been proposed.



Did you know...

UV-C RADIATION HAS BEEN PROVEN TO REDUCE 99.8% OF C.DIFF SPORES IN 50 MINUTES AND 99.9% OF VEGETATIVE BACTERIA ON SURFACES IN AS LITTLE AS 15 MINUTES[1]

- Fully automated UV-C systems significantly reduce *C. difficile*, VRE, and MRSA contamination on frequently handled hospital surfaces
- Hydrogen peroxide systems are effective against MRSA, *M. tuberculosis*, viruses, sporeformers, VRE, and multiresistant Gram-negative bacilli, including *Acinetobacter* spp
- Hydrogen peroxide systems may offer reliable microbicidal activity against all hospital pathogens[2]

Sources: See overleaf.

How Inivos Can Help

Inivos have developed innovative disinfection robots that harness UV-C light rays and hydrogen peroxide vapour technology to ensure an efficacious and effective decontamination of whole rooms, with a proven, measured, system of validation for each and every cleaning cycle.

Using this technology, which has been independently verified to achieve a log 6 reduction in bacterial load, we offer whole room decontamination as both an on-call service or part of a managed contract.

Our Service

We manage our service from end-to-end to ensure all stakeholders are aligned through clear communication of a complete project plan. Our teams of qualified technicians are able to operate 24 hours a day, 365 days a year to ensure rapid turnaround and minimum disturbance or disruption to the clinical schedule. This involves:

Pre-Cleaning Assessment

Our technician carries out pre-process safety checks; checking access to the area to be decontaminated, making sure deep cleaning has been effectively carried out and measuring entrance and exit points to prepare them to be sealed off.

They then prepare the area for decontamination by erecting sheeting so as to compartmentalise the whole room before sealing and isolating any fire alarm systems or vents, if required.

Finally, they liaise with clinical or hospital staff in adjacent areas to ensure they are fully informed about the decontamination process.

Active Cleaning

The next step is to carry out the decontamination process using the correct and most appropriate disinfection robot. This will either be through the use of our UV-C light ray system, Ultra-V, or with our low concentrate hydrogen peroxide vapour system, ProXcide.

Validated Assurance

After cleaning and disinfection, our technician will check the area is safe to readmit patients, dismantle any enclosures and remove the disinfection robot and equipment to allow clinical or hospital staff to prepare the room for the readmission of patients.

Our Approach

Our approach follows a set of steps which we apply to every part of what we do. This involves analysing your needs and environment, designing solutions fit for purpose and delivering effective results.

Our knowledge and expertise allows us to provide the very best in decontamination, with a particular emphasis on the efficacy and safety of our models.

Why Inivos?

Not only are we an established and trusted name in healthcare, with facilities and hospitals around the world relying on our advanced hydrogen peroxide vapour and UV-C light disinfection robots, we also offer a **level of expertise second to none**, and **unique services**, including call-outs, pre-cleaning assessments and decontamination.

- **Multiple areas included**
- **Evidence based processes**
- **Validated assurance**
- **Dedicated project management**

Helping you provide patient-ready spaces with on-call decontamination and managed services

24 HOUR RAPID RESPONSE 0800 652 2689

Our Inivos services are easy to arrange and tailored to your requirements:

Call **0845 270 6690** or email **customerservices@inivos.com**

Sources: [1] When compared to the time taken for manual disinfection using alcohol wipes. [2] Dancer SJ. Controlling hospital-acquired infection: focus on the role of the environment and new technologies for decontamination. Clin Microbiol Rev. 2014;27(4):665-690. doi:10.1128/CMR.00020-14.

inivos.com