



Airborne infection control – the solution

In addition to respiratory droplet secretions, airborne infection also embraces many “lighter than air” bacteria and viruses, such as MRSA, that are carried around hospital environments on minute dust particles.

These organisms are widely dispersed by natural air currents before precipitating on to susceptible hosts or surfaces and equipment, from whence they may be readily disturbed again. Intervening in this route of transmission will greatly improve environmental hygiene and significantly reduce the opportunity for infection .

A controlled clinical trial¹ against MRSA, was recently completed at Northwick Park NHS Trust in London. By intervening in the airborne cycle of transmission, Medixair successfully demonstrated positive and statistically significant results.

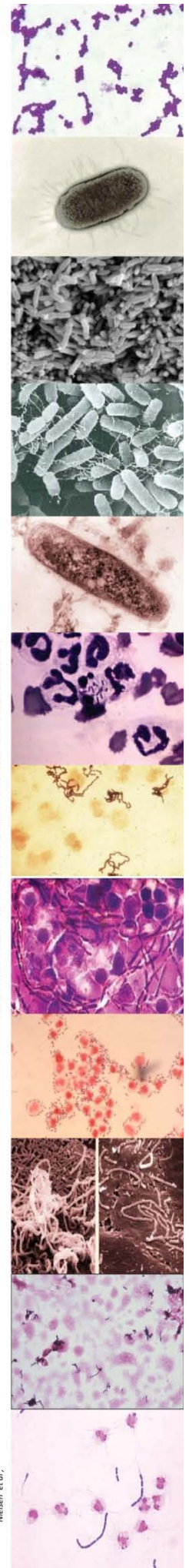
A further study² demonstrated that airborne transmission plays an important role in *Clostridium difficile* infection. Following the placement of Medixair units within an orthopaedic trauma ward, *C.diff* infection rates were reduced by 80%; a performance that was maintained for a fifteen month period.

Medixair is the ideal product to combat aerial dissemination of norovirus

Medixair, a 110w air sterilisation unit employing ultraviolet light, is designed to de-contaminate the air within critical care hospital environments. The machine is portable and very quiet when running. The patented technology packages a high amount of UV energy securely and safely into a single device that can be easily deployed within the patient environment.

In operation it cleans hospital wards through the continuous decontamination of room air as it passes through the machine. Working at a rate of 25 m³/hour, Medixair produces a stream of sterile air which dilutes environmental contamination and thereby reduces the risk of infection.

Capable of generating fast results Medixair will, unlike other cleaning and disinfection methods, provide continuous and sustainable protection - it is the ideal solution to combat the return of contamination after deep cleaning.



2 *Clostridium difficile* - Antibiotics and nosocomial transmission
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1 A New Mobile Air Sterilisation Device Prevents the Airborne Spread of Methicillin Resistant *Staphylococcus aureus*
Nielsen et al.

*At Last a real solution
for infection control professionals*
Powerful | Quiet | Portable | Sustainable

*“Our data illustrates that the Medixair device represents a significant advance in atmospheric treatment” **

The Facts

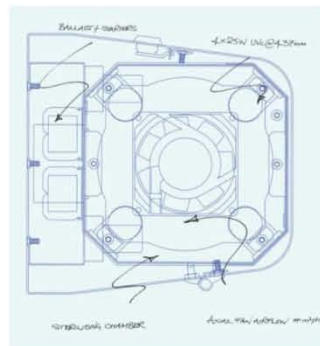
- Medixair produces 25m³ of sterilised air per hour
- A room 5m x 5m can be cleaned in 2 to 3 hours
- UV Energy 22,500µW.sec.cm⁻²
- In vitro testing at Microsearch UKAS Laboratories
- Clinically Tested NHS Northwick Park
- Quiet Operation < 33dB
- Full safety certification
- Effective against all major viruses and bacteria

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Microorganism	µW. sec per cm ²
Bacteria	
<i>Bacillus anthracis</i>	4,520
<i>Bacillus megaterium</i>	1,300
<i>Bacillus megaterium spores</i>	2,730
<i>Bacillus subtilis</i>	7,100
<i>Bacillus subtilis spores</i>	12,000
<i>Corynebacterium diphtheriae</i>	3,370
<i>Escherichia coli</i>	3,000
<i>Micrococcus lutea</i>	19,700
<i>Micrococcus spheroids</i>	10,000
<i>Mycobacterium tuberculosis</i>	12,000
<i>Neisseria caterrhalis</i>	4,400
<i>Proteus vulgaris</i>	2,640
<i>Pseudomonas aeruginosa</i>	3,500
<i>Pseudomonas fluorescens</i>	8,000
<i>Salmonella enteritidis</i>	4,000
<i>Salmonella typhimurium</i>	8,000
<i>Serratia marcescens</i>	2,420
<i>Staphylococcus albus</i>	1,840
<i>Staphylococcus aureus</i>	2,600
<i>Streptococcus hemolyticus</i>	2,160
<i>Streptococcus lactis</i>	6,150
<i>Streptococcus viridans</i>	2,000
Viruses	
<i>Adenovirus</i>	4,500
<i>Bacteriophage T4</i>	6,600
<i>Coxsackie virus A9</i>	6,300
<i>Coxsackie virus B1</i>	15,500
<i>Infectious hepatitis virus</i>	8,000
<i>Influenza</i>	3,400
<i>Poliovirus (poliomyellitis)</i>	6,500
<i>Poliovirus 1</i>	21,000

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