

## Air Space from OXONOX: The UK's Answer to Enhanced Healthcare Safety

Sepsis is a leading cause of death, particularly during periods of widespread health concerns like the COVID-19 pandemic. In hospitals, sepsis has been a significant contributor to mortality, with about 1 in 3 hospital deaths associated with it. The pressing nature of this issue underscores the need for innovative solutions, and the introduction of Air Space offers a promising approach, especially with its portability and limited requirements for changes to processes or infrastructure.

Air Space provides a scientifically advanced system for reducing bacterial and viral loads in the air. In fact, during air exchanges, over 92% of all bacteria are obliterated. This dilution reduces the likelihood of infections taking hold and gives the host more time to mount a natural immune response. The portability of Air Space solutions provides flexibility, allowing for improvements to existing facilities and infrastructure at a fraction of the cost of extensive renovations or rebuilding.

Applications for "Air Space" are extensive and aren't just limited to hospitals. Primary Care GP waiting area and Care homes, notorious for close quarters and vulnerable populations, can significantly benefit. By using "Air Space", care homes can reduce odours and more importantly, cut down on the transmission of harmful pathogens and infections. Such advancements are especially crucial in places like Gastroenterology wards, Chemotherapy units, Mortuaries, and Staff toilets where pathogenic transmission and malodours are common issues.

### How OXONOX Delivers Value:

1. **Bacterial and Viral Load Reduction:** OXONOX effectively reduces over 92% of all pathogens present during air exchange. This significantly minimizes the chances of infections due to exposure to these pathogens.
2. **Natural Immunity Boost:** A diluted bacterial and viral load implies that if there's an exposure, the host might have more time to develop a protective natural immunity.
3. **Rapid Environmental Cleaning:** OXONOX aids in quickly purifying the air in high-risk spaces. This makes it an ideal addition to standard cleaning techniques.
4. **Protection for Healthcare Workers:** Implementing OXONOX measures can lead to decreased staff illnesses caused by cross-infections, thereby ensuring that healthcare facilities are always adequately manned.
5. **Safer Hospital Environments:** With OXONOX, there's reduced risk in communal areas such as changing rooms, rest areas, and more. This not only protects the staff but also the patients.
6. **Complements Existing Solutions:** OXONOX acts as a super adjunct to conventional air exchanges and HEPA filters. Furthermore, it aids in odour control, leading to fresher working environments.

### Applications and Areas of Use:

#### 1. Primary Care Facilities:

With the rise of online consultations to prevent pathogenic spread, OXONOX's capability to manage airborne pathogen loads becomes even more significant. In primary care facilities where face-to-face interactions are crucial:

- **Patient Safety:** In communal waiting areas, the risk of spreading infections is high. By reducing airborne pathogens, OXONOX ensures that patients, including those with compromised immune systems, are less likely to contract infections.

- **Staff Protection:** Medical personnel can confidently consult without the fear of inhaling airborne pathogens, reducing sick days and maintaining an operational staff.
- **Odour Management:** Medical facilities can sometimes have unpleasant odours, affecting patient comfort and perception of cleanliness. OXONOX can improve the ambient environment by controlling these odours.

## 2. A and E Departments:

A high footfall area, often frequented by those who might be carrying community-acquired infections.

- **Infection Control:** Those waiting for long hours are at risk. OXONOX helps mitigate this risk by continually purifying the air, reducing the chance of hospital-acquired infections.
- **Odour Reduction:** With different cases coming in, including trauma, the odour can become an issue. Managing this enhances the environment for patients and staff.

## 3. Burns and Intensive Care Units:

These units deal with critically ill patients, where infections can be deadly.

- **Critical Infection Prevention:** Burns and open wounds are susceptible to infections. Reducing airborne pathogens can prevent complications arising from such infections.
- **Cross Infection:** Patients transferred from various locations bring diverse microbes. OXONOX ensures these pathogens don't become a permanent risk in these units.
- **Odour Management:** Wounds, especially burns, can emit strong odours. By reducing these, OXONOX ensures a more comfortable environment for recovery.

## 4. Hospital Facilities:

OXONOX is beneficial across multiple hospital areas.

- **Outpatient & Consulting Rooms:** With numerous patients daily, these areas benefit from OXONOX's pathogen load management, offering a safer consultation space.
- **Elevators & Escalators:** High-touch areas with limited ventilation can become hotspots for pathogens. OXONOX can keep the air in these spaces cleaner.
- **Burns Unit Operating Theatres:** Sterility is paramount. Beyond surgical instruments, the air must be as pathogen-free as possible, which OXONOX can aid in achieving.
- **Staff Areas:** Protecting hospital staff is as crucial as patient protection. Areas like changing rooms, toilets, and rest areas can become safer with reduced pathogen loads.
- **Odour Control:** From mortuaries to gastroenterology units, managing unpleasant odours improves the working conditions for healthcare workers and enhances patient comfort.

OXONOX's capability to manage airborne pathogens ensures a safer, cleaner, and more pleasant environment in healthcare settings, vital for patient recovery and staff well-being.

By leveraging OXONOX in these areas, hospitals and healthcare facilities can significantly enhance patient safety, improve staff protection, and create a more sterile and safer environment for all.

## Next Steps

To explore the implementation of Air Space technology to reduce the risk of aerosol and planktonic spread of bacteria, viruses and fungal spores in your Hospital, Clinic, Funeral home, Mortuary facility, or any space with malodour or with high a high person footfall please contact our distributor at [info@osy-group.com](mailto:info@osy-group.com).

*This white paper is intended to provide information and guidance regarding the benefits of Air Space technology for funeral directors and mortuaries, addressing key industry problems and issues. These benefits extend across various markets where air quality and pathogen control are important. For specific inquiries, further information and evidence or to explore implementation options, please contact [info@OXONOX.com](mailto:info@OXONOX.com).*

*Disclaimer: The information provided in this white paper is based on the knowledge available as of the publication date and may be subject to change. Readers are encouraged to verify the information and consult with experts in the field for the most up-to-date recommendations and solutions.*