

Case Study: Impact of Dry Hydrogen Peroxide (DHP®) Technology on Air Quality and Biosecurity in Veterinary Clinic

INTRODUCTION

Ensuring a clean, safe, and infection-free environment in veterinary clinics is essential for both animal and human health. Persistent pet odors, airborne pathogens, and the risk of spreading illness among staff and clients present ongoing challenges. To address these concerns, ARKLE Veterinary Care implemented Synexis' patented DHP technology to assess its effectiveness in improving air quality, reducing microbial contamination, and enhancing overall clinic hygiene.

TESTING & OBSERVATIONS

The study was conducted at ARKLE Veterinary Care with continuous DHP deployment. Key observations included:

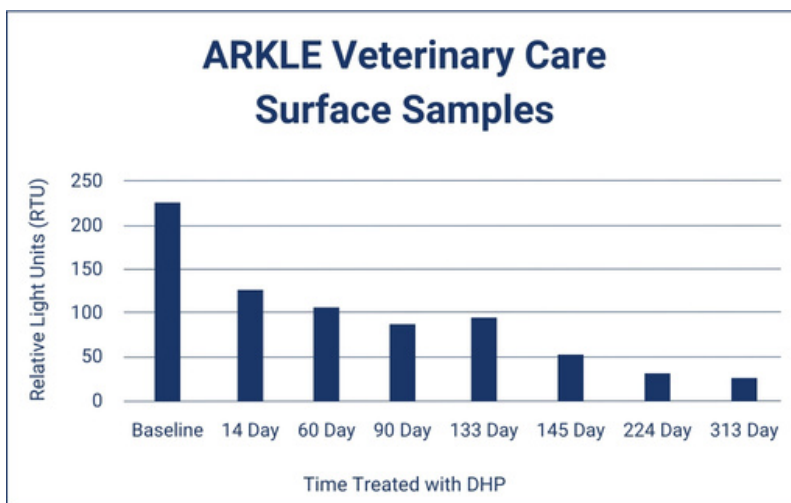
- **Minimal odor presence throughout the facility.** Faster odor dissipation following procedures was also observed.
- **Reduced illness spread.** The clinic owner observed that despite an employee contracting the flu, it did not spread to others, marking a significant improvement in workplace health.
- **Peace of mind.** The team feels confident they are doing everything possible to safeguard their patients and staff, knowing that Synexis is always working in the background.

RESULTS

Long-term testing of surface samples at the clinic revealed an 88% reduction in ATP (Relative Light Units, RLU) over 313 days, demonstrating the effectiveness of DHP technology.

"We have used the Synexis System for almost 5 years now. Knowing the Synexis System is working in the background helps us feel confident we are doing everything possible to protect our patients and staff. We haven't had a case where we know that a patient developed a respiratory illness directly from our facility."

**-Rebecca Pease, Practice Manager,
ARKLE Veterinary Care**



IMPLICATIONS FOR VETERINARY CLINICS

Synexis DHP offers an innovative, continuous solution for maintaining clean, safe, and odor-free veterinary environments. By reducing microbial presence and airborne contaminants, DHP supports biosecurity, staff well-being, and customer satisfaction. Clinics integrating DHP can expect:

- Improved hygiene & infection control
- Enhanced staff well-being & reduced illness spread
- Odor reduction for a more pleasant client experience
- A safer, cleaner veterinary environment



Learn more
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