Above and Beyond
Reducing Pathogens in Healthcare Settings

Viruses are Everywhere

An estimated 10 nonillion (10 to the 31st power) individual viruses exist on our planet—enough to assign one to every star in the universe 100 million times over[1].

More than 200 viruses are known to cause disease in humans, and all are capable of breaking into human cells[1].

Flu viruses can survive in the air for several hours, especially at lower temperatures, and on hard surfaces they can survive and remain infectious for 24 hours[2].

Risk Factors for Pathogen Spread

- Number of people in an occupied space
- Potential of exposure to droplets and aerosols
- High-volume patient turnover resulting in greater exposure
- Uncontrolled space (masked and unmasked individuals together)
- Poor or improper ventilation[3]

Comprehensive Pathogen Reduction

Standard Precautions

Hand Hygiene

Personal Protective Equipment (e.g., gloves, masks, eyewear)

Respiratory Hygiene/ Cough Etiquette

Sharps Safety

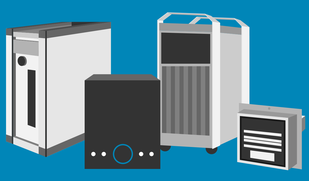
Safe Injection Practices

Sterile Instruments and Devices

Clean, Disinfected Environmental Surfaces[4]

Preventing Airborne Spread

Beyond passive air filtration, offices can enhance protection through proactive air purification systems that incorporate scientific and medical breakthroughs pioneered by NASA.



ActivePure® - Continuous and Proactive Air Purification

ActivePure Technology seeks out and destroys pathogens[5] in the air whenever and wherever they enter the space.

How it Works

Uses Oxygen & Humidity from the Air

Converts it into Powerful Oxidizing Molecules, Including Gaseous Hydrogen Peroxide

Continuously Fills the Space with these Powerful Molecules

Molecules Seek Out & Inactivate Pathogens Wherever They Occur

Surface Prevention

Implementing supplemental infection prevention measures – like disinfecting areas that might not be treated with episodic cleaning – provides peace of mind your facility is protected.

SprayGuard™ - Surface Protection For Up to 90 Days

A tech will come to your facility to clean, apply a registered disinfectant and apply an antimicrobial layer protecting surfaces for up to 90 days.[6]

How it Works

Specially trained SprayGuard technicians come to your office to:

1. Clean high-touch surfaces to remove soil and debris
2. Apply a registered disinfectant using an electrostatic sprayer
3. Apply an antimicrobial surface protectant effective against odor & stain causing bacteria, fungi (mold and mildew), and algae

Sources

1 https://www.nationalgeographic.com/science/article/factors-allow-viruses-infect-humans-coronavirus

2 https://www.sciencefocus.com/the-human-body/how-long-can-a-virus-live-outside-a-body/

3 https://www.cdc.gov/infectioncontrol/spread/index.html

4 https://www.cdc.gov/oralhealth/infectioncontrol/pdf/safe-care2.pdf

5 Medical Guardian ActivePure has been shown to be effective against six aerosolized biologics: Staphylococcus epidemeris (Gram +), Erwinia Herbicola (Gram -), MS2 (RNA (RNA bacteriophage) and Phi X174 (DNA bacteriophage); and Bacillus globigii, and Aspergillus niger.

6 Rotavirus, Strain WA, Hepatitis C Virus Bovine Viral Diarrhea Virus, Hepatitis B Virus Duck Hepatitis, Norovirus Feline Calicivirus, Murine Norovirus (MNV-1), Swine Influenza (H1N1), Respiratory Syncytial virus, ATCC VR-26, Human Immunodeficiency Virus (HIV Type 1) Strain HTLV-IIIb, Influenza B Virus (Strain B/Taiwan/2/62), ATCC VR-1735, Hepatitis A Virus ATCC VR-1541, Hantavirus (Prospect Hill Virus) University of Ontario, Canine Distemper Virus, Strain Snyder Hill, ATCC VR, Adenovirus 1, Strain Adenoid 71, ATCC VR-1, Canine Parvovirus, Strain Cornell-780916, ATCC VR-2016, Canine adenovirus 1, Strain Utrecht, ATCC VR-293, Feline Herpsvirus 1 Strain C-27, ATCC VR-636, Feline coronavirus, Strain WSU 79-1683, ATCC VR 989, Canine coronavirus Strain 1-71, ATCC VR-809, Canine Influenza (H3N8) virus, Strain A/CaNY/105913/08, Cornell University, Feline Infectious Peritonitis Virus, Strain: WSU 79 1146, ATCC# VR-990, Feline panleukopenia virus, Strain Philips- Roxane, ATCC VR-648, Rabies Virus, Strain: Flury (HEP), ATCC VR-139, Herpes Simplex Virus 1 (Human), Strain HF, ATCC VR-260.

For more information on these solutions, contact **ipc@healthfirst.com**

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