



Delivering innovative room disinfection and sterilization services utilizing iHP® technology for faster infection prevention results.



Healthcare-associated infections (HAIs) are among the leading causes of death in the United States, accounting for an estimated 1.7 million infections and 99,000 associated deaths every year. Moreover, a recent CDC report estimated the annual medical costs of HAIs to U.S. hospitals to be between a staggering \$28 and \$45 billion.

With the increasing pressure from federal and state regulators, and new HAI reporting laws, it is more important than ever that healthcare institutions quickly reduce HAI rates. The transmission of many pathogens causing HAIs are known to result from contaminated environmental surfaces. To address these infection control challenges, **SixLog provides effective room disinfection and sterilization services utilizing iHP® (ionized Hydrogen Peroxide).** iHP® is a cutting edge technology that is effective against common “super bugs” such as MRSA, C. difficile, VRE, Acinetobacter and other multi drug-resistant organisms (MDRO) that lead to nosocomial infections. SixLog’s technology uses a proprietary liquid solution that kills all microorganisms and spores on contact. The complete process is compatible with sensitive electronics, and the solution dissolves into just oxygen and water, making it safe for staff, patients and visitors as well as the environment. Our services easily augment hospitals’ terminal cleaning protocol for a fast track to zero HAIs.

As a subsidiary of Astro Pak, the leading cleaning and passivation provider, we are supported by five decades of expertise and experience. Building upon Astro Pak’s heritage of “delighting customers through excellence,” SixLog strives to not only meet, but to exceed customers’ expectations in delivering sterilization services. SixLog seeks to continue that exemplary legacy and commitment to customers through the following mission statement:

.....
SixLog is the trusted leader in delivering safe, effective, and advanced room disinfection/sterilization services and equipment, when and where needed, in a professional, friendly manner.
.....

270 E. Baker St., Ste. 100 877.4SIXLOG
Costa Mesa, CA 92626 (877.474.9564)
Tel: 949.270.0880 **SIXLOG.COM**
Fax: 714.708.3329

Healthcare Applications



Healthcare Outbreaks



Patient Rooms



High Risk Areas: ORs, EDs, Isolation Rooms, ICUs and More



Equipment Disinfection: IV Poles, Crash Carts, Stretchers, Transports, Stethoscopes and More



“ Utilizing our proven iHP[®] technology, we are able to provide a 10⁶ reduction of viruses, bacteria, fungi, and spores. ”

Tailored On-Site Programs

As an HAI prevention and intervention strategy, SixLog offers on-site programs individually tailored to each healthcare facility to seamlessly integrate with terminal cleaning protocols. SixLog will employ and station sterilization experts at your facility to work with the appropriate departments (infection prevention, environmental services, epidemiology and executive management) in developing and implementing a customized program. SixLog's mobile equipment can be safely applied to any room, including areas that contain electronic and patient-support equipment. Additionally, it does not require adjoining rooms to be vacated. We can work with you on an as-needed basis or under contract terms based on your disinfection and sterilization requirements.

Program Features

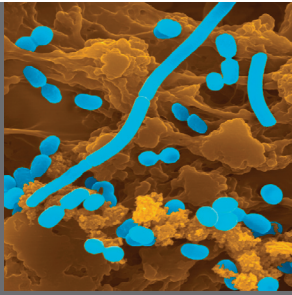
- Regularly scheduled unit, floor, and wing disinfection and sterilization, including visitor and common areas, emergency departments, operating rooms, isolation rooms, labs and more
- On-site disinfection of portable equipment used in patient care such as, IV poles, stretchers, transports and carts
- Flexible scheduling allowing for servicing during off-hours and ability to accommodate routine and emergency events

Benefits

- Complete eradication of all microorganisms and their spores, on surfaces and in the air
- Safe for staff, patients and visitors as well as the environment
- No personnel training or additional staffing needed
- iHP[®] does not create noxious fumes or leave behind any residue

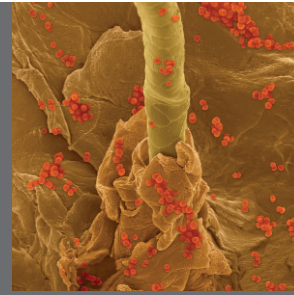
iHP[®] Defined

SixLog iHP[®] is a hydrogen peroxide based technology that has proven effectiveness in reducing biological contaminants to below detectable levels for various microorganisms. Surface structures of the microorganisms (proteins, carbohydrates, and lipids) are destroyed by the reactive oxygen species (ROS) and reactive nitrogen species (RNS) are produced when a fine mist of hydrogen peroxide and isopropyl alcohol is passed through a cold plasma arc. iHP[®] can be used in open air and, once ionized, acts like a gas as opposed to a vapor, providing excellent distribution properties, and destroying microorganisms even in those hard-to-reach areas. Thus, iHP[®] is more effective and requires a drastically shorter decontamination process time than alternatives.



Acinetobacter

Clostridium difficile
(C. diff.)



Staphylococcus aureus
(MRSA) on the surface of
human skin and hair follicle

Additional advantages of SixLog iHP® technology include: iHP® has no requirement for special atmospheric conditions. Finally, since hydrogen peroxide is the primary component used, breaking down into oxygen and water at the completion of the decontamination process, iHP® is one of the most environmentally friendly or “green” decontaminants available.

The SixLog Advantage

Not all decontamination service providers are alike. SixLog understands that customers want a rapid response to their need, a fast acting treatment process for

minimized downtime, a safe process with no residue or noxious fumes, and one that is environmentally friendly at a cost-effective price. Through delivering superior efficacy, responsiveness, and an environmentally friendly technology, we strive to meet those customer requirements every day.

Superior Biological Efficacy:

Utilizing our proven iHP® technology, we are able to provide a 10⁶ reduction of viruses, bacteria, fungi and spores. The efficacy of our process is validated using stainless steel biological indicators that are

populated with six-log Geobacillus stearothermophilus spores.

Environmentally Friendly:

SixLog iHP® is one of the most environmentally friendly or “green” disinfection process in the marketplace, since the hydrogen peroxide used breaks down into just oxygen and water. This makes it a safe process for patients, visitors and staff, as well as the environment. Also, iHP® does not harm sensitive electronics or monitoring systems and has excellent materials compatibility.

Comparative Processes

SixLog’s company name was developed as a result of the sterilization our iHP® (ionized Hydrogen Peroxide) biological decontamination technology provides, defined as a 10⁶ reduction.

Sanitization: The process of making something (usually an inanimate object) clean. This is typically defined as a 2-log reduction.

Disinfection: The process of eliminating pathogenic organisms or making them inert, i.e., to kill the germs and bacteria or render them harmless. This is typically defined as a 2-5 log reduction.

Sterilization: The process of completely eliminating microbial viability, i.e., to kill all non-pathogenic and pathogenic spores, fungi and viruses. This is typically defined as a 6-log reduction.

SANITIZATION
10² reduction

DISINFECTION
10⁵ reduction

STERILIZATION
10⁶ reduction

iHP® Efficacy on Biological Organisms

General Efficacy Testing on Biological Organisms

SURFACE CONDITIONS	ORGANISM	LOG REDUCTION	COMMENTS (Exposure Duration)	TESTING LAB
Hydrophobic Microbial Filter Material	Bacillus atrophaeus spores	>8.3	Dry Spore (60 sec)	1
Ceramic Tile	Bacillus atrophaeus spores	>7.4	Dry Spore (45 sec)	1
Hydrophobic Microbial Filter Material	Bacillus atrophaeus vegetative cells	>9.0	Gram Positive (60 sec)	1
Ceramic Tile	Escherichia coli cells	>7.4	Gram Negative (30 sec)	2
Ceramic Tile	Staphylococcus aureus cells	>7.4	Gram Positive (45 sec)	2
Ceramic Tile	Stachybotrys chartarum spores	>6.9	Gram Positive (5 sec)	2
Ceramic Tile	Pseudomonas aeruginosa cells	>8.4	Water borne (45 sec)	2
Ceramic Tile	Virus bacteriophage P22 HT 105	>5.6	Virus (60 sec)	2
Hydrophobic Microbial Filter Material	Serratia marcescens	>6.0	Hand Cleaning Standard (15 sec)	3
Stainless Steel	Bacillus stearothermophilus spores	>6.26	H2O2 Resistant Spore (60 sec)	3
Glass	Aspergillus niger	>8.0	(30 sec) EPA DIS/TSS	3
Glass	Stachybotrys chartarum	>7.0	(30 sec) EPA DIS/TSS	4
Glass	Trichophyton mentagrophytes	>6.0	(30 sec) EPA DIS/TSS	4
Glass	P. aeruginosa	>4.0	(30 sec) EPA DIS/TSS	4
Glass	S. aureus	>5.0	(30 sec) EPA DIS/TSS	4
Glass	S. choleraesius	>4.0	(30 sec) EPA DIS/TSS	4
Glass	Escherichia coli	>4.0	(30 sec) EPA DIS/TSS	4
Stainless Steel	Bacillus subtilis	>6.0	Sterility Indicator (<30 sec)	1
Stainless Steel	Bacillus	>6.0	H2O2 Resistant (<30 sec)	1
Stainless Steel	Pseudomonas	>6.0	Indicator For Aqueous Contamination (<30 sec)	5
Filter Paper	Serratia Marcescens	>6.0	Indicator for Hand Contamination (<30 sec)	3
Glass	Aspergillus expansum	>7.0	(15 sec)	2
Glass	Aspergillus parasiticus	>7.0	(15 sec)	2
Glass	Aspergillus restrictus	>7.0	(15 sec)	2
Glass	Aspergillus sydowii cladosporium cladosporioides Type 1	>7.0	(15 sec)	2
Glass		>7.0	(15 sec)	2
Glass	Cladosporium cladosporioides	>7.0	(15 sec)	2
Glass	Cladosporium sphaerospermen	>7.0	(15 sec)	2
Glass	Penicillium atramentosum	>7.0	(15 sec)	2
Glass	Penicillium chrysogenum	>7.0	(15 sec)	2
Glass	Penicillium citrinum	>7.0	(15 sec)	2
Glass	Stachybotrys chartarum	>7.0	(15 sec)	2

Testing Labs

1. University of South Florida Center for Biological Defense
2. Microbial Insights
3. L-3 Communications
4. Microbiotest
5. Beckman Coulter



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