



New Study Proves 2-Minute Cycle with Pulsed Xenon UV Significantly Reduces OR Contamination; Xenex Robot Eliminated 72% More Pathogens than Manual Cleaning Alone

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SAN ANTONIO--([BUSINESS WIRE](#))--Surgical Site Infections (SSIs) devastate patients and can cost a healthcare facility more than \$50,000 in additional patient care per infection. Surfaces in the operating room (OR) may harbor superbugs and other pathogens that contribute to the infection risk. Studies have shown that contamination builds in the OR during the day, even when it is manually cleaned between procedures. Some of the superbugs that threaten patients and can cause SSIs, such as *Staphylococcus aureus*, *Enterococcus*, *Klebsiella* and *Pseudomonas*, are capable of living on OR surfaces from 1.5 hours to more than 30 months.

[Xenex® Disinfection Services'](#) LightStrike® [Germ-Zapping Robots](#)® have been proven to quickly destroy the germs and bacteria in ORs that can cause infections using pulsed xenon ultraviolet ([PX-UV](#)) light. Hundreds of hospitals use LightStrike robots to disinfect their ORs after the day's procedures are complete and two hospitals have published [peer-reviewed studies](#) showing 46%-100% reductions in their SSI rates when the LightStrike robot was used to disinfect ORs after terminal cleaning.

In an attempt to reduce contamination in the OR between surgeries, [researchers](#) evaluated the LightStrike robot in the OR and found that it can effectively disinfect high touch surfaces in just 2 minutes. According to [the new study](#) "Evaluation of a pulsed xenon ultraviolet disinfection system to decrease bacterial contamination in operating rooms" Haddad et al.; published in [BMC Infectious Diseases](#), "This short cycle time may make between-case cleaning [with PX-UV] in the OR a viable option and something hospitals should consider operationalizing within their protocol."

The [study](#) found that a 2-minute cycle of intense pulsed xenon ultraviolet (PX-UV) light disinfection eliminated 72% more pathogens on high-touch surface areas in the OR than manual cleaning alone. The authors noted that the short room turnover time is feasible, even for a busy OR, and could potentially reduce pathogen transmission to patients and reduce SSI rates.

The Xenex LightStrike Germ-Zapping Robot has been credited by numerous health care facilities across the U.S. for helping them reduce their infection rates significantly. Several hospitals have published their 46%-100% *Clostridium difficile* (*C.diff*), MRSA and/or Surgical Site infection rate reduction studies in peer-reviewed journals. Twenty-three peer-reviewed articles have been published about the LightStrike robot's effectiveness, including nine crediting the intense pulsed



xenon UV technology for contributing to a facility's reduction in HAI rates. To date, the only SSI reduction data credited to UV disinfection and published in a peer-reviewed journal is from hospitals using Xenex pulsed xenon ([non-mercury bulb](#)) UV technology.

More than 400 hospitals, Veterans Affairs and Department of Defense facilities in the U.S., Canada, Africa, UK, Japan and Europe use Xenex robots, which are also in use in skilled nursing facilities, ambulatory surgery centers and long term acute care facilities.

Xenex Disinfection Services

Xenex LightStrike Germ-Zapping Robots are used for the advanced disinfection of healthcare facilities. Due to its speed and ease of use, the Xenex system has proven to integrate smoothly into hospital cleaning operations. Xenex's mission is to save lives and reduce suffering by destroying the deadly pathogens and superbugs that cause hospital acquired infections (HAIs). The company is backed by well-known investors that include EW Healthcare Partners, Piper Jaffray Merchant Services, Malin Corporation, Battery Ventures, Tectonic Ventures, Targeted Technology Fund II and RK Ventures. For more information, visit [Xenex.com](#).

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