

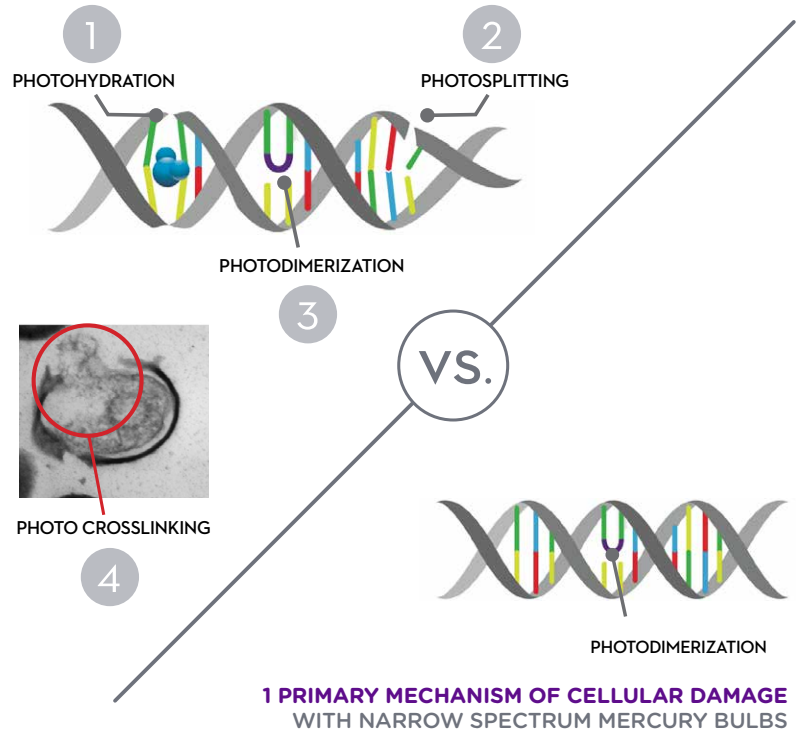
## Lab-Validated Effectiveness

Xenex has tested its Full Spectrum™ UV Germ-Zapping Robot on a variety of organisms. At 2 meters in 5 minutes or less, the following organisms were all reduced by >99.9% in several independent testing labs.

### Microorganism

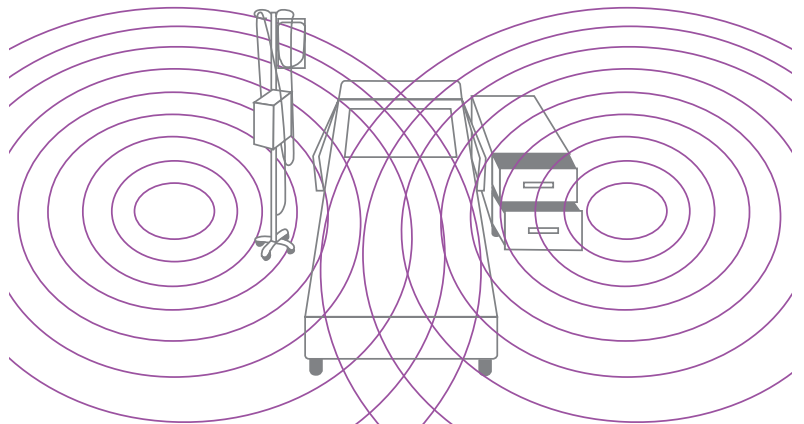
- Acinetobacter baumannii*
- Aspergillus niger* (black mold)
- Bacillus cereus* spores
- Bacillus pumilus* spores
- Bacillus subtilis* spores
- Candida albicans*
- Canine parvovirus (ebola surrogate)
- Clostridium difficile* "C. diff" spores (NAP1)
- Escherichia coli* & *E. coli* (KREC)
- Klebsiella oxytoca*
- Klebsiella pneumoniae*
- Methicillin-resistant *Staphylococcus aureus* (MRSA)
- MS2 bacteriophage virus
- Mycobacterium tuberculosis*
- Feline calicivirus (norovirus surrogate)
- Pseudomonas aeruginosa*
- Proteus mirabilis*
- Proteus morgani*
- Proteus vulgaris*
- Staphylococcus aureus*
- Staphylococcus epidermidis*
- Vancomycin-resistant *enterococci* (VRE)

### XENEX FULL SPECTRUM™ UV: 4 PRIMARY MECHANISMS OF CELLULAR DAMAGE PREVENTS CELL REPLICATION



## Shadows & Light Reflection

Studies have shown that shading does not reduce Xenex's efficacy. Multiple positions in a room are recommended because effective UV disinfection cannot rely on reflectivity to reach all surfaces.



Shadowed areas are being disinfected, but our target is high-touch surfaces.



**XENEX IS THE ONLY NON-MERCURY UV WITH PEER REVIEWED PUBLISHED OUTCOMES.**

## Time Matters

The Xenex Germ-Zapping Robot™ is the only automated disinfection technology proven in multiple peer reviewed published outcome and environmental studies to kill *C. diff* spores in 5 minutes in the hospital environment. With our recommended bedside and bathroom cycles, rooms are disinfected in **15 minutes or less**. That means patients don't have to wait.



## Real World Results

### Peer Reviewed Published Environmental Effectiveness Studies

<ul style="list-style-type: none"> <li>• <b>7x</b> more effective than traditional cleaning</li> <li>• <b>16x</b> more effective at <b>deactivating MRSA</b></li> <li>• <b>23%</b> faster than traditional cleaning</li> </ul>	BMC Infectious Diseases/April 2014 (Jinadatha, Temple VA)
<ul style="list-style-type: none"> <li>• Xenex <b>eliminated all VRE</b> from the environment</li> </ul>	ICHE/Mar 2011 (Stibich, MD Anderson Cancer Center)
<ul style="list-style-type: none"> <li>• Bleach removed 70% of <b>C. diff</b> spores while no-bleach clean <b>plus Xenex removed 95%</b></li> </ul>	JMH/Jan 2015 (Chemaly, MD Anderson Cancer Center)
<ul style="list-style-type: none"> <li>• <b>99.6% reduction</b> in real-world hospital bioburden without manual cleaning</li> <li>• Xenex efficacy <b>not affected by shading</b>, pathogen concentration, or surface protein load</li> </ul>	ICHE/Jan 2015 (Nerandzic, Louis Stokes Cleveland VA Medical Center)

### Peer Reviewed Published Hospital Effectiveness/Patient Outcome Studies

<b>53% reduction in HA-C. diff</b> infection rates after 12 months	AJIC/May 2013 (Levin, Cooley Dickinson)
<b>57% reduction in HA-MRSA</b> infection rates after 18 months	JIP/June 2013 (Simmons, Moses Cone)
<b>20% reduction HA-C. diff</b> infection rates while hitting 22% of discharge rooms	AJIC/June 2014 (Haas, Westchester Medical Center)



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