

## Real World Results

**Xenex results are proven in hospitals across the nation.** The following is a summary of third party research from our customers.

RESULTS	JOURNAL/DATE/AUTHOR
<b>Hospital Effectiveness Results</b>	<b>Peer Reviewed Published Outcome Studies</b>
<b>70% reduction in ICU C. diff</b> infection rates	AJIC/In press 2015 (Nagaraja, Westchester Medical Center)
<b>20% reduction C. diff + MDRO</b> infection rates while hitting 22% of discharge rooms	AJIC/June 2014 (Haas, Westchester Medical Center)
<b>57% reduction in MRSA</b> infection rates after 18 months	JIP/June 2013 (Simmons, Moses Cone)
<b>53% reduction in C. diff</b> infection rates after 12 months	AJIC/May 2013 (Levin, Cooley Dickinson)
<b>Environmental Results</b>	<b>Peer Reviewed Published Studies</b>
Xenex is <b>effective even in absence of manual cleaning</b>	AJIC/in press 2015 (Jinadatha, Temple VA)
<ul style="list-style-type: none"> <li>• <b>99.6% reduction</b> in real-world hospital bioburden</li> <li>• Xenex efficacy <b>not affected by shading</b>, pathogen concentration, or surface protein load</li> </ul>	ICHE/January 2015 (Nerandzic, Louis Stokes Cleveland VA Medical Center)
Bleach removed 70% of <b>C. diff</b> spores while no-bleach clean <b>plus Xenex removed 95%</b>	JMM/January 2015 (Ghantoji, MD Anderson Cancer Center)
<ul style="list-style-type: none"> <li>• <b>7X</b> more effective than traditional cleaning</li> <li>• <b>16X</b> more effective at deactivating MRSA</li> <li>• <b>23%</b> faster than traditional cleaning</li> </ul>	BMC Infectious Diseases/April 2014 (Jinadatha, Temple VA)
Xenex <b>eliminated all VRE</b> from the environment	ICHE/March 2011 (Stibich, MD Anderson Cancer Center)
<b>OR Environmental Results</b>	<b>Posters Presented</b>
Xenex was <b>62% more effective</b> at eliminating pathogens than standard housekeeping measures	APIC/June 2013 (Croteau, St. Joseph's)
Quick clean plus Xenex resulted in <b>&gt;81% reduction</b> in surface colony counts vs. standard turnover OR cleaning	APIC/June 2013 (Bruno-Murtha, Cambridge Health)
<b>HCAHPS Improvement</b>	<b>Peer Reviewed Published Study</b>
<b>HCAHPS score increased</b> from 52nd % to 78th % ( <b>10% increase</b> ) for 3 qtrs after Xenex patient awareness campaign	Risk Management and Healthcare Policy/January 2014 (Fornwalt, Trinity Medical Center)



## Time Matters

The Xenex Germ-Zapping Robot™ is the only automated disinfection technology proven in multiple hospital peer reviewed published outcome and environmental studies to **kill C. diff spores in 5 minutes**. With our recommended bedside and bathroom cycles, rooms are disinfected in **15 minutes or less**.



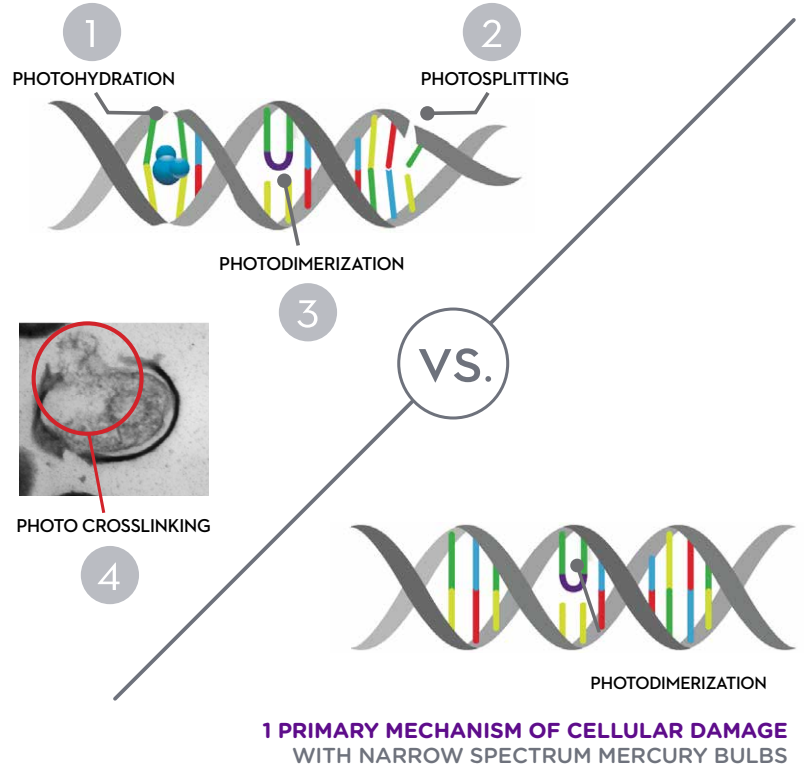
## Lab-Validated Effectiveness

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



## Disinfecting With Light

Studies have shown the optimal way to use germ-killing UVC light is to disinfect at multiple positions in a room.

