

New Century Spine and Outpatient Surgical Institute Launches New Defense Against Harmful Bacteria

Indigo-Clean Creates a Cleaner, Safer Patient Environment without Additional Room Down-Time



Project: New Century Spine and Outpatient Surgical Institute
Location: Paramus, New Jersey

“We chose to invest in Indigo-Clean for our operating room lighting not only because of the proven high antimicrobial rates, but we appreciated the ease of use, and the ability to continuously disinfect our operating rooms without any downtime. That translates into more procedures and more revenue for us.”

- Thomas Ragukonis, MD, Medical Director

Project Summary: New Century Spine and Outpatient Surgical Institute is the first free-standing surgery center to use Indigo-Clean™ continuous environmental disinfecting operating room light fixtures to help reduce the risk of surgical site infections.

Challenge: Provide patients, families and staff a safe, healthy environment by reducing harmful bacteria in the air, on hard and soft surfaces while maintaining operational efficiency and profitability.

Solution: Indigo-Clean Continuous Environmental Disinfecting Lights

Indigo-Clean Benefits

- Indigo-Clean is clinically proven to reduce harmful bacteria in the operating room, 70% or more, beyond routine cleaning
- Unlike UV devices, Indigo-Clean is safe for patients and healthcare providers allowing the room to remain in service 24/7
- Indigo-Clean’s automated operation minimizes human error and eliminates the need for dedicated staff to operate
- Automatically switchable between White Disinfection Mode and Indigo Disinfection Mode



Use of Indigo-Clean Continuous Disinfection Technology Translates to More Procedures, Added Revenue for New Century Spine



Indigo-Clean M4SEDIC

In the fall of 2016, the New Century Spine and Outpatient Surgical Institute opened a new 10,700 square-foot ambulatory surgery center specializing in pain management, dental/oral surgery, plastic surgery, orthopedics, and sports medicine, with plans to add additional services as they grow. The goal of the Center is to not only provide high-quality patient care in an outpatient setting, but also to provide patients, families and staff a safe, clean environment when they enter the facility. To help meet that goal, the Center has installed the latest disinfecting technologies throughout the building, including Indigo-Clean Continuous Disinfecting lights in the Institute's operating rooms.

Indigo-Clean fixtures use light-emitting diodes (LEDs) to generate visible white light that also contains a narrow spectrum of indigo colored light. This indigo color uses a wavelength of 405 nanometers (nm) to automatically, safely and continuously disinfect the air, hard and soft surfaces. The 405nm light is absorbed by porphyrin molecules within bacteria, producing a chemical reaction that kills the bacteria similar to the effects of household bleach. When the OR is not in use, the lights can be switched to an Indigo-only mode, providing a higher degree of disinfection.

"Our patients trust us to give them safe, quality care, and so it was important for us to build a facility using the most innovative and effective infection prevention technologies,"

— Thomas Ragukonis, MD, Medical Director.

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Indigo-Clean bolsters current cleaning protocols to reduce the harmful bacteria that causes hospital-acquired infections (HAIs), but unlike UV light, it is safe for room occupants. Recent clinical studies have proven significant antimicrobial kill rates of more than 70 percent using Indigo-Clean against a range of organisms including Staph, MRSA* and C.diff**.

According to the CDC, surgical site infections are the most common and costly of all hospital-acquired infections, accounting for 31 percent of all HAIs. Healthcare facilities around the United States are now employing Indigo-Clean Continuous Disinfection Technology as part of a comprehensive HAI reduction program. For other Indigo-Clean success stories, visit indigo-clean.com.



Indigo-Clean Features:

- Available in 1' x 4', 2' x 2' and 2' x 4'
- One-piece sealed housing; smooth exterior doorframe and lens for infection control and simplified cleaning protocols
- Diffused high-efficiency lens for reduced glare
- The Indigo-Clean fixture contributes to the ambient light levels in the room

Benefits for New Century Spine & Outpatient Surgical Center:

- Continuous environmental disinfection kills bacteria missed during routine cleaning
- Unlike UV devices Indigo-Clean does not require a technician or long periods of downtime,
- Requires no special staff training to use
- Does not require consumables

*Maclea M., S.J. MacGregor, J.G. Anderson, G.A. Woolsey, J.E. Coia, K. Hamilton, I. Taggart, S.B. Watson, B. Thakker & G. Gettinby (2010). Environmental Decontamination of a Hospital Isolation Room using High-Intensity Narrow-Spectrum Light. *Journal of Hospital Infection*, 76(3); 247-251. DOI: 10.1016/j.jhin.2010.07.010

**Antimicrobial Activity of a Continuous Visible Light Disinfection System by Rutala, et. al, ID Week 2016.