

ASC Spartanburg is First Surgery Center in South Carolina to Install Bacteria-Killing Operating Room Lights



Project: Ambulatory Surgery Center of Spartanburg
Location: Spartanburg, South Carolina

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– Mike Pankey, Administrator, ASC Spartanburg

Project Summary

The Ambulatory Surgery Center (ASC) of Spartanburg is the first free-standing surgery center in South Carolina to use Indigo-Clean™ continuous environmental disinfection technology within their operating room light fixtures to help reduce the risk of surgical site infections.

Challenge: Maintaining a safe and clean environment for patients in a room that is used continuously throughout the day for back-to-back surgical procedures.

Solution: Indigo-Clean Continuous Environmental Disinfecting Lights

Indigo-Clean Benefits

- Indigo-Clean is clinically proven to reduce harmful bacteria in the operating room, including MRSA and *C. diff*, 70% or more, beyond routine cleaning
- Unlike UV devices, Indigo-Clean is safe for room occupants, including patients and healthcare providers
- Indigo-Clean’s automated operation minimizes human error and operating room downtime
- The fixture is switchable between White and Indigo Disinfection Modes

Use of Indigo-Clean Continuous Disinfection Technology Translates into More Procedures, Added Revenue for ASC Spartanburg



ASC Spartanburg is a multi-specialty surgical center with seven operating rooms and two endoscopy suites. The center opened in April 2002 and is a joint venture with Spartanburg Regional Hospital. By 2009, the center handled over 11,000 procedures per year.

ASC's Administrator, Mike Pankey, is charged with balancing a very busy OR schedule with patient safety: "Maintaining a safe and clean environment for our patients is our top priority," he said. "We wanted a disinfectant technology that would be effective, efficient and easy to use, which is exactly what Indigo-Clean is. Compared to other disinfecting technology on the market, Indigo-Clean was the most cost effective and efficient, since there was no room downtime." He continued: "And because it's automatic, it alleviates concern of training and human error."

Mr. Pankey noted that during the course of a day, other disinfecting technology would leave the OR room down up to two hours — for a busy OR, that's a lot of time and revenue lost. "We can't afford to have a room down especially in our busiest operating rooms," he said. "Indigo-Clean safely and continuously cleans the environment during and after surgical procedures, which makes it a great addition to our current cleaning protocol."

"We conducted ATP testing on a variety of surfaces for a period of 30 days using a commercially available system to independently verify Indigo-Clean's efficacy," Pankey stated. "Our results show a reduction consistent with their disinfection claim, and we're excited to provide a cleaner, safer environment for our patients."

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, and hard and soft surfaces. The 405nm light is absorbed by molecules within the bacteria, producing a chemical reaction that kills the bacteria from the inside-as if common household bleach had been used. When the OR is not in use, the lights can be switched to an Indigo-only mode, providing a higher degree of safe disinfection.

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 hospital research studies have proven significant antimicrobial kill rates of more than 70 percent using Indigo-Clean, including proven efficacy in killing MRSA* and *C-diff***.

According to the Centers for Disease Control (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.

*Maclean 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.

"Maintaining a safe and clean environment for our patients is our top priority"



Indigo-Clean Features:

- Available sizes 1'x4', 2'x2' and 2'x4'
- One-piece, sealed housing; smooth exterior doorframe and lens for infection control and simplified cleaning protocols
- Diffused high-efficiency lens for reduced glare
- Contributes to the ambient light levels in the room

Benefits for the Ambulatory Surgery Center of Spartanburg:

- 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 or training to use
- Does not require consumables