

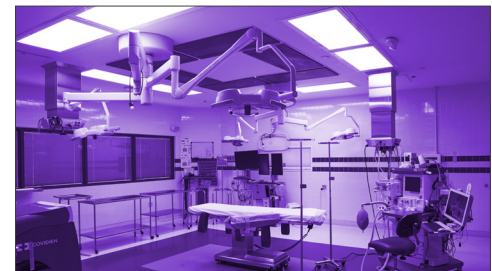
# Indigo-Clean Reduces Bacteria by 82% Daily in Holy Family Memorial Hospital OR



Project: Holy Family Memorial Hospital Operating Room (OR)  
Location: Manitowoc, WI

*"We chose to partner with Indigo-Clean over other disinfecting technologies because of the ease of use and the proven efficacy of the disinfecting lights. We look forward to expanding our usage of Indigo-Clean in other areas of the hospital in the future."*

- Lisa Sherman  
Director, Operating Room, Holy Family Memorial



Indigo Disinfection Mode is used to provide maximum disinfection

**Project Summary:** Holy Family Memorial Hospital, a 2017 Becker's Hospital Review 100 Great Community Hospitals honoree, installed Indigo-Clean M4SEDIC disinfecting LED luminaires in March 2017. The disinfecting lights help reduce an already low surgical site infection (SSI) rate by killing harmful bacteria in operating rooms.

**Challenge:** To reduce harmful bacteria that may lead to SSIs in a high use area of the hospital.

**Solution:** Holy Family Memorial installed Indigo-Clean M4SEDIC continuous disinfection luminaires.

### Indigo-Clean Benefits

- Indigo-Clean's automated operation minimizes operating room downtime and the risk of human error
- Unlike UV devices, Indigo-Clean is safe for patients and staff, which allows rooms to be turned over more quickly
- Indigo-Clean is clinically proven to reduce harmful bacteria, including MRSA and *C.diff*, 70% or more beyond routine cleaning
- Switchable between White Disinfection Mode and Indigo Disinfection Mode

# Holy Family Memorial Appreciates Ease and Effectiveness of Continuous Environmental Disinfection from Indigo-Clean Lighting



## Indigo-Clean M4SEDIC

In March of 2017, Holy Family Memorial Hospital in Manitowoc, Wisconsin joined Indigo-Clean's Clinical Partners Program in order to evaluate the effectiveness of visible light disinfection technology in operating rooms. What they found, upon reviewing the results, was even better than they expected: Holy Family Memorial realized an average, daily bacterial reduction of 82% in the operating room where Indigo-Clean was installed, even after adjusting for differences in room usage.

"Holy Family Memorial prides itself in promoting innovative products and services for our community, so the ability to work with Indigo-Clean as a Clinical Partner provided benefits for both parties," said Lisa Sherman, Director, Operating Room, Holy Family Memorial. "We chose to partner with Indigo-Clean over other disinfecting technologies because of the ease of use and the proven efficacy of the disinfecting lights."

Sherman also noted, "The operating rooms are in constant use, so knowing there is no room downtime and disinfection starts immediately with a flip of a switch, we believe Indigo-Clean is the safest and most efficient solution for us to help reduce the risk of surgical site infections without impacting surgical suite efficiency." Sherman concluded, "We look forward to expanding our usage of Indigo-Clean into other areas of the hospital in the future."

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 is produced using a wavelength of 405

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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 has 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% using Indigo-Clean, including proven efficacy in killing 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% 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](http://indigo-clean.com).

\*Macleane 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.



## Indigo-Clean M4SEDIC Features:

- Sizes: 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 reduces glare
- The Indigo-Clean fixture also contributes to the ambient light levels in the room

## Benefits for Holy Family Memorial Hospital:

- Continuous environmental disinfection kills bacteria missed during routine cleaning
- Unlike UV devices, Indigo-Clean does not require long periods of downtime or a technician to operate
- Requires no special staff training to use
- Does not require consumables
- Automatic disinfection when used with IC100 lighting controls