



Clean Sweep Group Inc. (CSGI) provides ultraviolet (UV) disinfection technology services, education, and infection prevention solutions to improve environmental hygiene and reduce healthcare-associated infections.



Together, Delivering Innovative Disinfection Technology Services and Infection Prevention Solutions



CSGI is a service-disabled veteran-owned small business (SDVOSB).



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 Minority-Owned Business | Current in SAM

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Environmental contamination increases risk of HAIs

Many healthcare-acquired infection (HAI) causing pathogens survive on environmental surfaces for weeks to months, are inadequately disinfected, and increase the risk of infection to patients.

What is Ultraviolet Disinfection?

Ultraviolet disinfection is a no-touch method for disinfecting germs in the healthcare environment without use of chemicals. Shortwave ultraviolet (UV-C) damages DNA and RNA of microorganisms, eliminating up to 99.999% of infection causing germs.

Since 2011, CSGI has utilized Infection Prevention Technologies' IRiS family of UV-C emitters to protect patients and reduce infections. IRiS devices provide whole room disinfection through multi-point UV dosage sensing, guaranteeing a thorough and consistent disinfection.



Above: The IRiS™ 3200m kills infection-causing bacteria, viruses, and fungi on surfaces without irritating chemicals. UV dosage sensors on IRiS devices adapt to room characteristics to deliver precise germicidal amounts of UV light.

Smart Technology, Smart Methodology

While UV-C is a proven germicide, numerous barriers exist to effectively implement and benefit from this technology cost-efficiently and without disrupting facility operations.

From the ER to OR and all patient rooms in between, CSGI provides scalable solutions to implement UV disinfection technology with an efficient and measurable methodology. Offering technicians, training, CSGI's *Analytics Management Portal (AMP)*, and best in market ultraviolet disinfection technology, CSGI provides a complete suite of implementation solutions that allows clients to maximize the value of ultraviolet disinfection with a program tailored to their needs.

Evidence-Based UV Implementation

Using HAI risk factors identified in epidemiology literature, CSGI has systematized the strategic deployment of ultraviolet disinfection technology with proprietary mobile software. Our computational approach allows UV technicians to efficiently target critical pathogen transmission points in a facility.

Unprecedented Disinfection Accountability

Details of every room disinfection are automatically uploaded to *Steri-Trak™*, allowing clients to track jobs in real-time. Additionally, CSGI provides routine service reports to verify the performance of technicians and UV devices, and provide a historical room disinfection log that includes disinfected mobile clinical equipment.

Infection Prevention Education

CSGI coordinates with infection prevention teams to craft and deliver educational messages to facility staff. Additionally, CSGI provides infection prevention

Proven Results

Study. Hospital-Acquired MDRO Reduction

- Direct service model at community hospital with 6 month pre and post experimental design
- Facility-wide 34.2% reduction of HAI rate per 1,000 pt. days ($p < .001$)
- 46.2% HAI rate reduction of *Clostridium difficile* ($p < .001$)
- 71.8% HAI rate reduction of *Acinetobacter baumannii* ($p = .005$)
- 100% HAI rate reduction of *Klebsiella Pneumoniae* ($p < .001$)

The effectiveness of UV-C radiation for facility-wide environmental disinfection to reduce health care-acquired infections. Napolitano, et al. American Journal of Infection Control. 2015

Study. Hospital-Onset *Clostridium difficile* Reduction

- Direct service model at community hospital with 6 month pre and post experimental design
- Facility-wide 24.95% reduction of HO-CDI rate per 1,000 pt. days ($p < .05$)
- Average CDI room disinfection duration 19.26 minutes

Implementation of Ultraviolet Room Disinfection to Reduce Hospital-Onset Clostridium difficile Infections. Haag, et al. SHEA Spring Conference 2015. Abstract #6978.

Visit CSGIusa.com/studies for additional published research.

Value-Added Solutions

1. *Direct Service Model:* Onsite CSGI technicians provide labor, UV technology, logistics, reporting and accountability systems. The direct service model eliminates the burden of implementation for clients.
2. *Managed Service Model:* CSGI provides UV technology, client technician training, and license of logistics, reporting, and accountability software.
3. *Technology Distribution:* CSGI provides UV technology and client technician training.