CLEAN LIKE LIVES DEPEND ON IT.
Facts About Hospital-Associated Infections (HAIs): Causes, Cost and Outcomes

1 in 25
Patients in U.S. hospitals have at least one HAI

1.7 MILLION
Approximately 1.7 million HAIs occur in U.S. hospitals each year.

HAIs kill more people in the U.S. than breast cancer and prostate cancer combined.

30%
of healthcare workers adequately comply with hand hygiene practices.

72%
of hospital floor sites tested positive for *C. difficile*.

<50%
Multiple studies have shown that less than half of hospital room surfaces are adequately cleaned and disinfected.

$45 BILLION
Average amount spent annually on HAIs by acute-care hospitals.

2.5x
A previously infected patient increases the next patient’s risk of contracting *C. diff* by 2.5x.
The EVS struggle is real.

There are a lot of external factors that Environmental Services (EVS) has to deal with on a daily basis. Many of these concerns create roadblocks to infection prevention initiatives. HFM Magazine published the results of a survey aimed at documenting the top concerns of EVS workers. Here are a few that topped the list:

The Challenges:

1. **Pressure to expedite room turns.** 42% of hospital staff feels under pressure to expedite room turns for incoming patients, making it difficult to clean and disinfect the patient environment adequately.9

2. **Assigned responsibility to clean mobile objects.** 41% of hospital staff expressed concern over who in the hospital should be cleaning mobile objects. It isn’t uncommon for nursing and environmental services (EVS) to both assume that the other function is cleaning certain objects, and often surfaces such as IV poles and Workstations on Wheels get skipped entirely.

3. **High turnover in EVS.** 25% of hospital staff is concerned about the high turnover in EVS and the impact on infection prevention. In general, EVS can be a high turnover department and frequently understaffed and under budgeted, making maintaining effective cleaning even more challenging.

4. **No standard practice.** 20% of hospital staff is concerned about the lack of objective standards. Facilities often struggle with maintaining adequate cleaning protocols, inconsistent staff compliance with protocols and the need to quickly turn over patient rooms.

5. **Lack of knowledge in the role of the environment in cross contamination and transmission.** 20% of hospital staff have concerns about this, and rightfully so. Just one contaminated bedrail or doorknob can transmit infectious organisms throughout the hospital within hours. The result: patients constantly at risk.10 In addition, C. difficile, MRSA, VRE and other germs can survive for months on surfaces. Without regular and effective surface disinfection, these pathogens can be a continuous source of transmission to vulnerable patients.11

To help break the chain of infection, surface cleaning and disinfection is one of your first lines of defense.
Tackling the problem.

Clear-cut guidelines on how to solve surface contamination don’t exist. That’s why we’ve worked with experts nation-wide to develop a comprehensive surface cleaning and disinfection system. It combines process with evidence-based products and education to help decrease the spread of HAIs.
Helping you do the right thing.

Our bundle approach helps you create and maintain a successful cleaning and disinfection program.

DISCOVERY ASSESSMENT

First we examine your current protocols. We observe cleaning practices, evaluate appropriateness of products and perform ATP swabbing to quantitatively measure cleanliness. Once complete, you’ll receive specific recommendations to address identified problem areas.

CLEANING PROCESS

Our Clean by Sequence™ method with numbered microfiber booklets guide your staff from surface to surface, so nothing is missed and cross contamination is minimized.

EVIDENCE-BASED PRODUCTS

You choose the right mix of products—evidence-based with quick kill times—to satisfy the specific needs of your facility.

STAFF EDUCATION

You can access a variety of online and onsite training materials to help staff improve their skills.

OUTCOMES REPORTING

Periodic reviews using ATP testing provide you with data to track improvements and correct weak spots. Engineered for healthcare, our ATP system has patented samplers for covering large areas quickly, data reporting based on CDC recommendations and a full-color display.

To minimize the potential for HAIs, proper cleaning techniques followed by use of the right disinfectants are important weapons in the battle.6
Clean by Sequence.™

The CDC recognized 17 different high-touch surfaces that are most vulnerable to the spread of pathogens. Giving your staff a step-by-step system helps ensure thoroughness and consistency. Our clean by sequence process uses a numbered microfiber booklet and “hot spot” map, making it easy to train, implement and follow. The result—optimal cleaning, enhanced outcomes and reduced throughput times.

**PATIENT ROOM**

1. Door Knob/ Light Switch
2. Bedside Table Handles/Phone
3. Call Button
4. Tray Table
5a. Left Bed Rails
5b. Right Bed Rails
6a. Chair
6b. Chair
7. Room Sink

**RESTROOM**

1. Door Knob/ Light Switch
2. Restroom Sink
3a. Handrails
3b. Handrails
4. Bedpan Cleaner
5. Toilet Flush Handle
6. Toilet Seat
Developed using national standards from the CDC, AHRQ, APIC and other professional associations.

**REUSABLE CLEAN BY SEQUENCE™ MICROFIBER BOOKLETS**

Housekeeping staff often use the same cloth to clean the whole room—a cross contamination risk. Our numbered microfiber booklets ensure a separate cloth is used for each surface and no surface is missed. They come in three colors: blue for the patient room, orange for restroom use, and purple for other discharge room surfaces and ancillary areas of the hospital.

**POINT-OF-CARE DEVICES**

Mobile and shared patient equipment are often overlooked in cleaning protocols. Presaturated disinfectant wipes are an easy way to make sure these devices are frequently disinfected by caregivers.

**FLOORS**

Mop all floor surfaces with a microfiber mop, starting farthest from the door and moving towards the door. Use a new mop when cleaning the bathroom to avoid cross contamination. A floor-safe disinfectant with a low contact time is considered best practice instead of a general cleaner without disinfection properties.
Zero in on germs.

Our products give you a powerful weapon in the battle against HAI causing pathogens:

To get access to all the benefits of the ERASE Pathogens program, choose from a selection of top-tier infection prevention products.

**Required Products: Two out of the four following categories must be purchased to get access to ERASE Pathogens.**

### Germicidal Wipes
- **Micro-Kill Bleach**
  - Germicidal Bleach Wipes MSC351400AN, MSC351410AN and MSC351450AN
  - Kills *C. difficile* spores and other pathogens.
- **Micro-Kill™ One**
  - MSC351300 and MSC351310
  - Kills *Mycobacterium bovis*, Norovirus, Poliovirus, MRSA, VRE and more—in one minute.

### Disinfectant Solutions
- **Micro-Kill Q3 Concentrated Disinfectant, Cleaner & Deodorizer EVSCHM110**
  - This dispensed disinfectant kills a broad spectrum of microbes, including HIV-1, Hepatitis B, MRSA, VRE and Rotavirus. The Medline dispenser and metering tip in the bottle ensure accurate dilution every time.
- **Micro-Kill NQ5 EVSCHEM215**
  - This dispensed disinfectant has a neutral pH and low 5-minute contact time. Ideal for use on floors where a low contact time is needed.
- **BruTab 6S Disinfectant Tablets BRISG12518N**
  - Non bleach disinfectant effective against a broad range of microorganisms including *C. difficile*.

### Disinfection Systems
- **Solaris™ Lytbot UV Light Disinfection System EVSSL001**
  - High energy pulsed UV light leads to micro-organism disintegration, meaning Solaris Lytbot quickly and dependably eliminates the most stubborn pathogens from high-risk areas. It features 360-degree rotation to cover the whole room, as well as three- and five-minute cycles that are 15–40% faster than competitors.

### Cloths and Mops
- **Microfiber Super Mop**
  - MDT217741B and MDT217741ORB
  - Dense microfibers pick up and lock in dirt so it doesn’t get pushed around.

### Complementary Products: While not required to gain access to the program, the below products are recommended for a complete infection protection practice.

- **Exam Gloves**
  - **Glide-On Powder-Free**
    - Vinyl Exam Gloves GLIDE511
    - Enhanced donning technology to help don on to hands easier.
  - **FitGuard Touch Powder-Free Nitrile Exam Gloves FG3000**
    - Durable nitrile protection and textured fingertips for enhanced grip.

- **Spectrum Advanced Hand Sanitizers**
  - **Gel Pocket Size**: 2oz HH70G02, 4oz HH70G04
  - **Gel Table Top**: 15oz HH70G15
    - Contains 70% Ethyl Alcohol, aloe and Vitamin E to get hands clean and smooth.
  - **Foam Table Top**: 7.5oz HH70F75, 18oz HH70F18
    - Contains 70% Ethyl Alcohol and moisturizers to help reduce dry skin.
  - **Wipes To Go**: 20 Pack MSC350320
    - **Wipes Table Top**: 50ct HH70W50, 160ct HH70W160
      - On-the-go hand sanitizing wipes kill germs and bacteria.

- **Cleaning Validation Tool**
  - **AccuPoint ATP Sanitation Monitoring System Meter EVSATPSYSTEM**
    - Offers reliable results and documents cleanliness levels of your facility.
  - **AccuPoint ATP Sanitation Monitoring System Samplers EVSATPP0105**
    - Sanitation monitoring made simple with the easy-to-use AccuPoint™ HC.
Our patent-pending Clean by Sequence™ Microfiber Booklets are designed with the following goals:

» Increase compliance in cleaning CDC high-touch surfaces
» Reduce cross-contamination by assigning each surface to a separate page
» Reduce room turnover time
» Increase HCAHP scores

A variety of different colored booklets are available to signal to the patient that the cloths have been changed. **Purchasing a blue patient room booklet and an orange patient restroom booklet are required components of the program.**

**Cloths**

**Reusable Clean by Sequence™ Microfiber Booklets**

MDT217690, MDT217691 and MDT217692

Icons are placed on each page of the booklets to represent the CDC high touch surfaces.

» Blue booklets for patient room surfaces
» Orange booklets for patient bathroom surfaces
» Purple booklet (numbered, no icons) for additional discharge surfaces and cleaning ancillary areas of the hospital
Add to Their Skills.

Continual training delivers continual improvement. We emphasize a thorough training curriculum that includes both initial and ongoing education for all staff.

**Online Education**

Medline University® gives your housekeeping and nursing staff 24/7 access to the ERASE PATHOGENS course. Topics covered include:

» Clean-by-sequence process and how to correctly perform each step
» How disinfectants work and why contact times are important
» Specialty cleaning procedures
» Scripting for occupied rooms
» Interactive quizzes to confirm learning and competence
» Nursing and management education

**Kudos and Recognition**

Inspire the best from your clean team with customizable certificates and bulletin board shoutouts.
Based on ATP testing, we provide customized huddle sheets and other tools to close any identified gaps in practice.
Leading the Way in Patient Safety

The ERASE PATHOGENS Surface Disinfection Solution is part of the Medline Clinical Solutions program. Medline Clinical Solutions combines specialized education, evidence-based products and outcomes management to help you elevate quality of care, meet regulatory standards and reduce costs.

Our solutions include:

**Education:** Our courses cover the basics of care and teach teamwork, leadership and how to implement change.

**Products:** Our clinically-proven products provide breadth and depth across the continuum of care.

**Outcomes:** Our useful tools ensure that learnings get applied to practice and help track results.

“Using the booklets has helped me during training for a few reasons:

1. Having the number and description is a great visual reminder to the employees as to where they are at in the cleaning process and what step or area needs to come next.
2. I have used these booklets for three training sessions and noticed that the new hires were more able to stay on task with cleaning all of the touch points on a consistent basis especially during the patient room clean.
3. Using the booklet cut down on the cleaning time a small amount as the employee could follow the numbers and descriptions rather than having to look at a slip of paper to see what touch point they should be getting.
4. We reduced cross contamination by referencing the information in the booklet. Using a clean surface every time allowed us to minimize the need to fold, refold and remember which side was used.”

– Amy Medina
Educator at InterMountain Healthcare

Contact Medline Industries, Inc. for data related to this line of products.