C. difficile Infection Reduction in Long-Term Care: Environmental Cleaning and Disinfection Bite-Sized Learning





Paula St. Hill, MPH, a-IPC

TECHNICAL ADVISOR, INFECTION PREVENTION

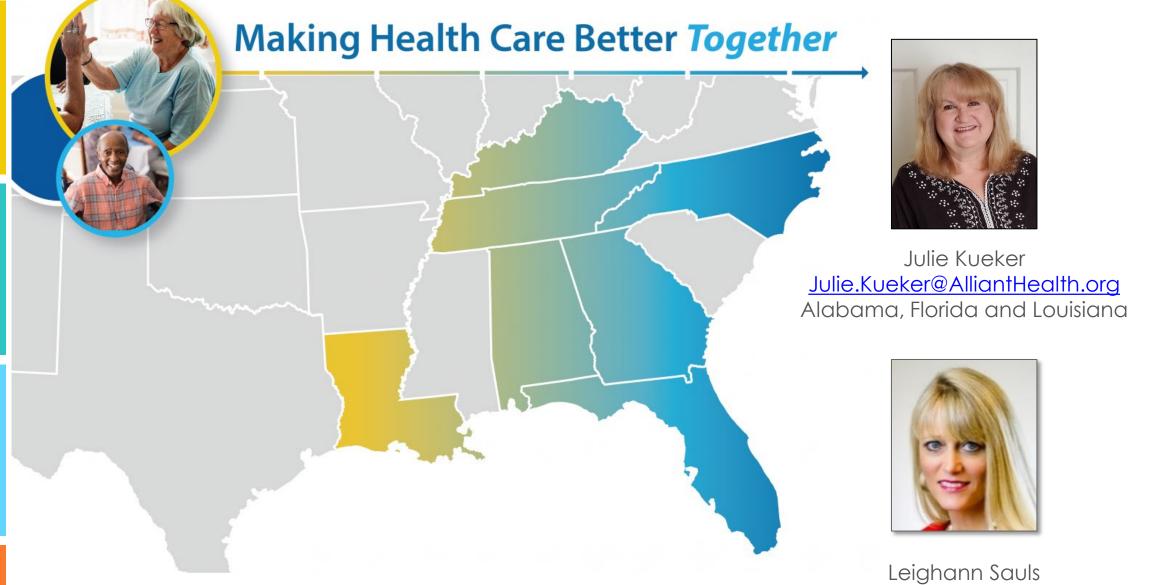
Paula is a doctoral student with a diverse background in public health, infection control, epidemiology and microbiology. She has always enjoyed public health and identifying ways to improve health outcomes, specifically those related to healthcare-associated infections. She has 10 years of health care experience.

Paula enjoys spending time with her friends and family.

Contact: paula.sthill@allianthealth.org







<u>Leighann.Sauls@AlliantHealth.org</u> Georgia, Kentucky, North Carolina and Tennessee





Environmental Cleaning and Disinfection

In this session, the learner should be able to:

- Differentiate between cleaning and disinfecting
- Identify EPA List K cleaning agents effective against C. difficile
- Utilize a basic guideline to describe who cleans what in the nursing facility



Cleaning vs. Disinfecting: What Is Cleaning?

- Cleaning is the process of physically removing germs, dirt and other impurities from surfaces.
- To clean a surface, use an all-purpose cleaning agent and a microfiber cloth or terry rag to lift soils away.
- Cleaning only removes germs and soils from the surface. It does not kill them. Germs that were not removed will continue reproducing and spreading.



Cleaning vs. Disinfecting: What Is Disinfecting?

- Disinfection describes the process of eliminating many or all pathogenic microorganisms, except bacterial spores, on inanimate objects.
- Disinfectants do not clean soils from surfaces.
- Disinfectants must be used after cleaning agents because they can not break through the soil on surfaces.
- To kill germs, most disinfectants contain either quaternary ammonium chloride (QUATS), peroxide (Hydrogen-Peroxidebased), or hypochlorite (bleach-based).





EPA List K

Products on List K:

Products on list K are registered for use against Clostridium difficile spores (C. diff). EPA
has reviewed required laboratory testing data demonstrating that these products kill
Clostridium difficile spores (C. diff).

How to Check if a Product is on List K:

- First, find the EPA registration number on the product label. Look for "EPA Reg. No." followed by two or three sets of numbers (ex. 1234-12 or 1234-12-123).
- On the Disinfectant list, search for the registration number exactly as it appears on the label.
- Once you see the results on the disinfectant list, make sure to check that the product's label includes directions for use against C. diff.
- Regardless of whether you are using a primary registration product or a supplemental distributor product, always check the label has the corresponding directions for use for the relevant pathogen.



EPA List K (continued)

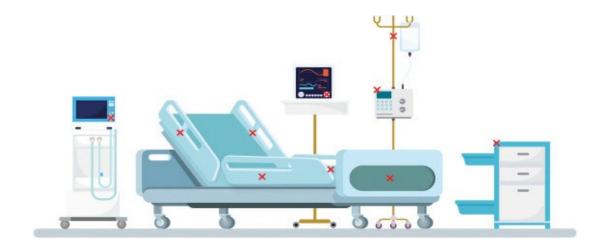
| Registration Number | Active Ingredients/s | Product Name | Company | Contact time (time surface should remain wet) | Formulation 🚊 | Surface Types [⇔] | Use sites (Hospital, Institutional, Residential) |
|------------------------|--|---|--------------------------------------|--|---------------|-------------------------------|---|
| 75266-1 | Sodium Hypochlorite | Activate 5.25% Institutional Bleach | Deardorff Fitzsimmons Corporation | 4 | Dilutable | Nonporous (HN) | Hospital; Institutional |
| 777-83 | Sodium Hypochlorite | Lysol Brand Disinfectant Bleach Plus | Reckitt Benckiser | 5 | Ready to Use | Hard Nonporous (HN) | Hospital; Institutional; Residential |
| 84526-6 | Hydrogen Peroxide; Silver Nitrate | Halomist | Halosil International, Inc. | 10 | Ready to Use | Hard Nonporous (HN) | Hospital; Institutional; Residential |
| 84697-2 | Sodium Hypochlorite | Regular Scent Concentrated Bleach | GS Liquid Technologies, Inc. | 10 | Dilutable | Hard Nonporous (HN) | Hospital; Institutional; Residential |
| 87518-6 | Sodium Hypochlorite | Sporex | HSP USA, LLC | 3 | Ready to Use | Hard Nonporous (HN) | |
| 88089-2 | Hydrogen Peroxide; Peroxyacetic Acid (Peracetic Acid) | Peridox | Contec, Inc. | 3 | Ready to Use | Hard Nonporous (HN) | Hospital; Institutional; Residential |
| 88089-4 | Hydrogen Peroxide; Peroxyacetic Acid (Peracetic Acid) | Peridox RTU | Contec, Inc. | 3 | Ready to Use | Hard Nonporous (HN) | Hospital; Institution Residential |





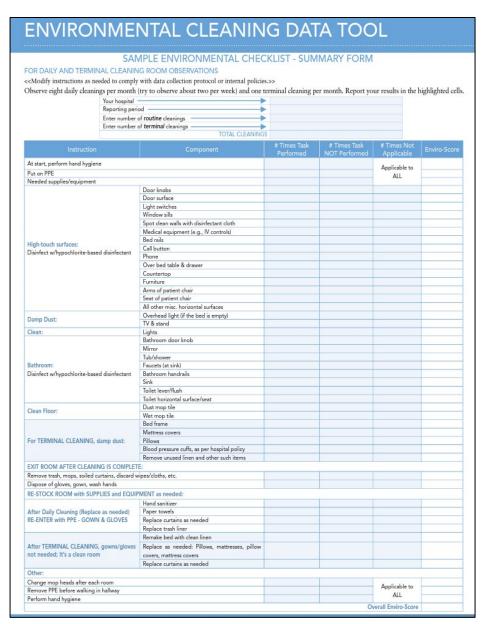
Who Cleans What?

It has been long known that numerous environmental sites and devices can become contaminated with *C. diff*. While the risk of room contamination is highest for patients with CDI, patients with asymptomatic *C. diff* colonization can also contaminate their environment. Routine cleaning and disinfecting of beds, commodes and other frequently touched surfaces remain important.





Environmental Cleaning Data Tool Sample







Don't Forget Hand Washing!

Washing with soap and water is the best way to prevent the spread from person to person. *C. diff* spores are resistant to alcohol; therefore, hand washing with soap and water remains important.







Thank you! Please contact any member of the Patient Safety Team for further questions!



Paula St. Hill, MPH, A-IPC
Technical Advisor, Infection Prevention
Paula.Sthill@AlliantHealth.org



Amy Ward, MS, BSN, RN, CIC, FAPIC
Patient Safety Manager
Amy.Ward@AlliantHealth.org



Donald Chitanda, MPH, CIC, LTC-CIP
Technical Advisor, Infection Prevention
Donald.Chitanda@AlliantHealth.org



Erica Umeakunne, MSN, MPH, APRN, CIC Infection Prevention Specialist Erica.Umeakunne@AlliantHealth.org







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