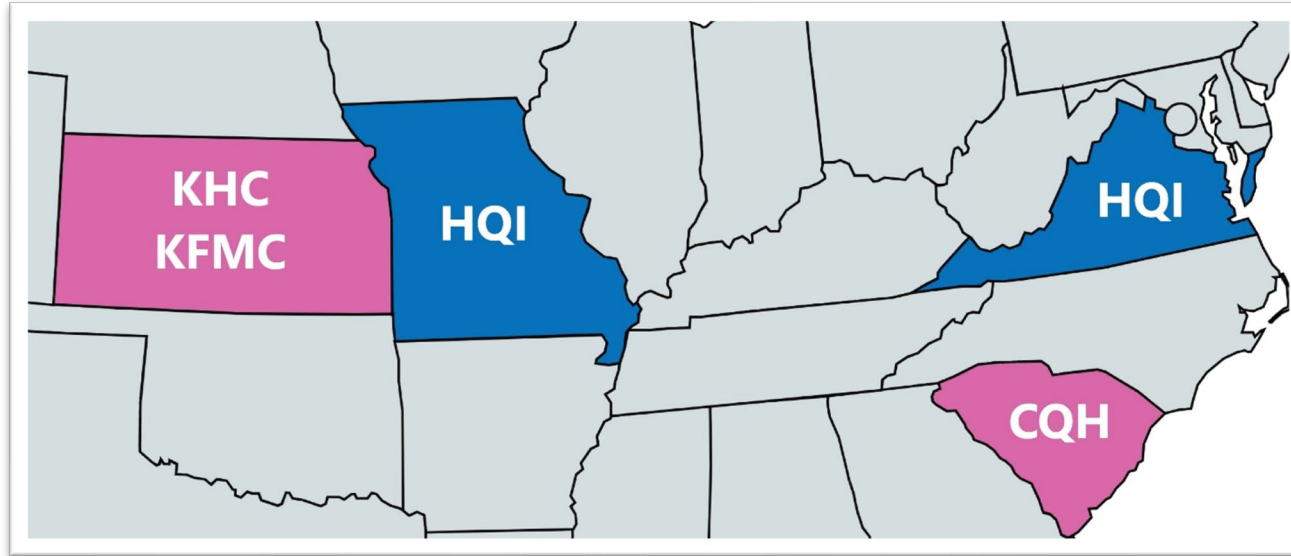




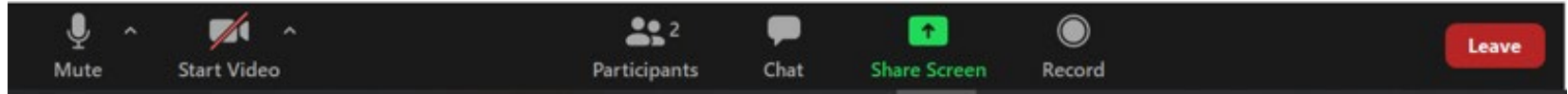
Health Quality Innovation Network



Health Quality Innovation Network



Logistics – Zoom Meeting



To ask questions, click on the **Chat** icon.

Raise your hand if you want to verbally ask a question.

Resources from today's session will be posted in **Chat**.

You may adjust your audio by clicking the caret next to the **Mute** icon.

Today's Presenters



DeAnn Richards has worked in infection prevention and occupational health for more than 30 years. She is certified in infection control, long-term care infection control, healthcare quality, and patient safety. While she began her healthcare career in long-term care, DeAnn has worked in multiple settings. She has held WI chapter leader positions, is a past APIC membership engagement chair and is an APIC faculty member.



Julie Richards has worked in infection control since 2013. She has been an RN for more than 28 years and holds CIC certification and Fellow designation with APIC. She is a published author and has shared her expertise at local and national events. She has served on the Greater KC APIC Board for more than seven years, including as president in 2020. She has contributed to the National APIC Public Policy Committee and was awarded the APIC Leaders Award in 2019.

Infection Prevention and Control Office Hours

Environmental Services Effective Respiratory Pathogen Cleaning and Disinfection

Presented by: DeAnn Richards, RN, BSN, CIC, LTC-CIP, CPHQ, CPPS
October 23, 2024



Objectives

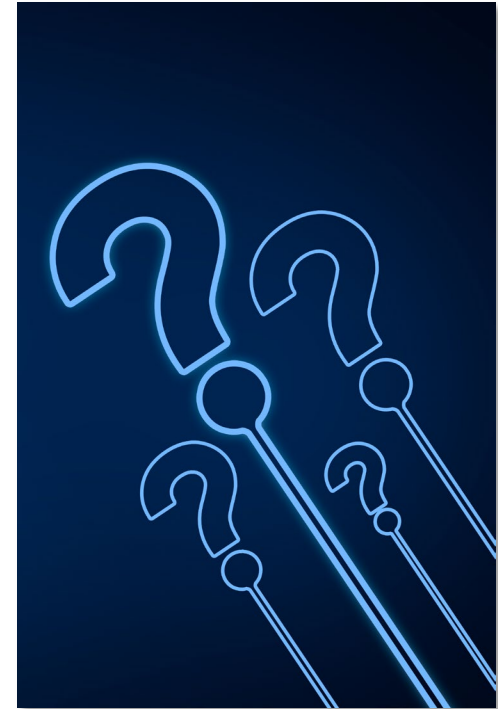
- Ensure cleaning and disinfecting core elements are in place to prevent the transmission of respiratory pathogens
- Acknowledge the disinfectant's capabilities and limitations and the impact on the facility's success
- Ask questions of the subject matter experts to clarify individual and facility understanding of best practices



Polling Question

What rule should be followed when cleaning?

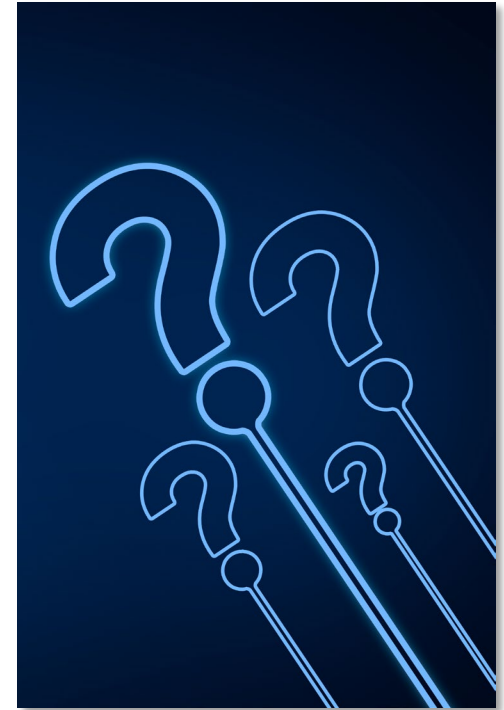
- A. Top to bottom
- B. A systematic, consistent method
- C. Clean to dirty
- D. All of these
- E. None of these



Polling Question

Which item should be revised when determining the best disinfectant?

- A. Pathogen wet, dwell, or contact time
- B. Method of application (spray, damp cloth, one-step application)
- C. Pathogen kill ability
- D. All of these



Organism	Length of Survival
<i>Clostridioides difficile</i>	> 5 months
<i>Staphylococci</i>	7 months
VRE	4 months
<i>Acinetobacter baumannii</i>	5 months
Norovirus	3 weeks
<i>Escherichia coli</i>	1.5 hours up to 16 months
<i>Klebsiella spp.</i>	2 hours up to > 30 months
SARS, HIV etc.	Days to weeks
<i>Pseudomonas aeruginosa</i>	6 hours to 16 months

COVID-19

- Four to nine days

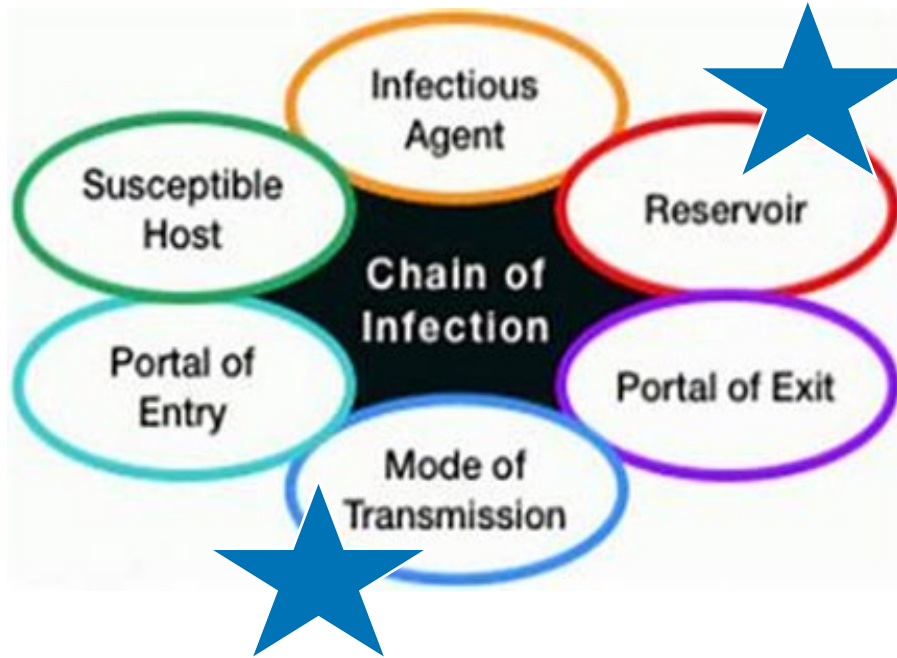
Influenza

- Hours to days

RSV

- Hours

Chain of Infection



- **Cleaning** physically removes
- **Disinfecting** involves a thermal or chemical process to inactivate
- **Sterilization** destroys or eliminates
- **Sanitizing** reduces to a safe level

OSHA and EPA Required Elements

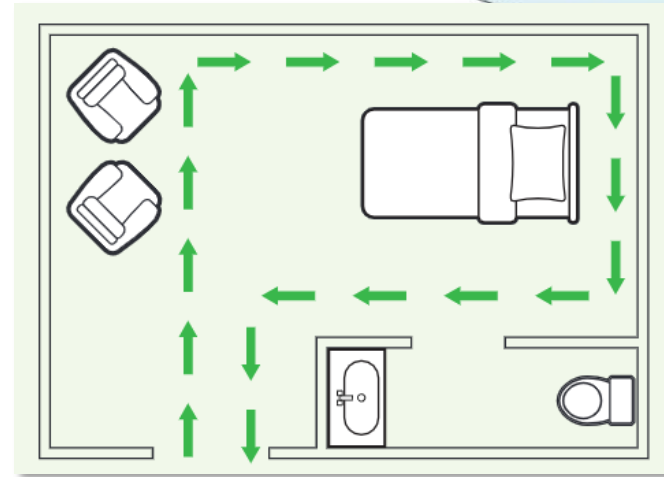
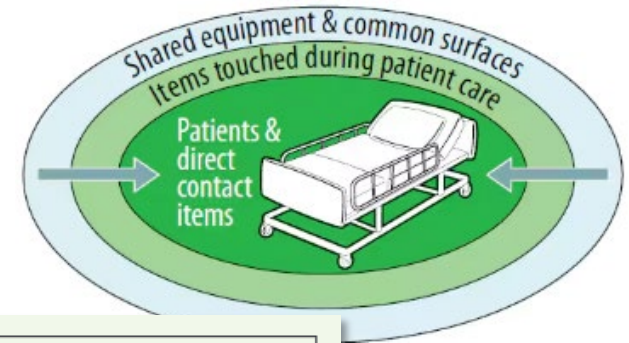
- Written schedules
- Methods
- Surfaces
- Degree of soilage
- EPA-registered hospital disinfectants
- Hazardous chemical inventory
- Safety Data Sheets
- Chemical education
- Personal Protective Equipment (PPE)

Important Considerations

- Use friction
- Organic matter (e.g., blood and body fluids) will inactivate disinfectants
- Established cleaning schedule
- Clean high-touch surfaces daily and more often as needed during outbreaks
- Per manufacturer instructions for use (IFU)
 - Single or multi-use
 - Type of disinfectant
 - Instructions for cleaning and disinfection
- Stored securely
- Application
- Mixing instructions

Environmental Services Practice

- Least soiled areas to the most soiled (clean to dirty)
- From high to low surfaces
- Systematic manner
- Report all broken items



Best Practice Elements

- Master list of approved cleaning products
- List of approved supplies and equipment
- List of PPE
- Master list of approved products
- Two-step process for C. difficile and spills of blood or bodily fluids

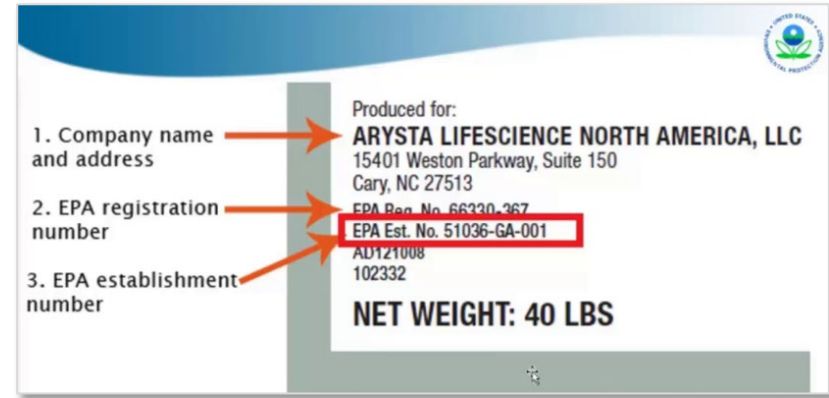
What's in Your Facility?

Collect cleaning agent names and EPA numbers:

- Cleaning cart(s)
- Dirty Utility room(s)
- Mixing closet(s) or station(s)
- Nursing station(s) and cart(s)
- Medication rooms
- Common spaces (e.g., community shower or spa, dining rooms)
- Purchasing

Why the EPA Number?

- Verify if approved
- Type of disinfectant
- Verify if hospital approved
- Verify what surfaces it can be applied to
- Verify what pathogens are killed
- Verify contact time
- What type and which PPE



**Only need the first two sets
of numbers**

EPA Claims

- **List A** – Sterilizers
- **List B** – *Mycobacterium tuberculosis*
- **List G** – Norovirus
- **List H** – MRSA /VRE
- **List J** – Medical Waste Treatment
- **List K** – *Clostridium difficile* (Spores)
- **List L** – Ebola
- **List M** – Avian Influenza
- **List N** – SARS-CoV-2/COVID
- **List O** – Rabbit Hemorrhagic Disease Virus
- **List P** – *Candida auris*
- **List Q** – Emerging Viral Pathogens
- **List S** – BBP

List N Tool: COVID-19 Disinfectants

List N Tool: COVID-19 Disinfectants

More Information

EPA Registration Number

Active Ingredient

Use Site

Surface Types

Contact Time

Browse All

Keyword Search

Enter only the first two parts of the registration number (ex. 1234-12)

EPA Registration Number	Active Ingredient(s)	Product Name	Company	Follow the disinfection directions and preparation for the following virus	Contact Time (in minutes)	Formulation Type	Surface Type	Use Site	Why is this product on List N?
100098-1	Quaternary Ammonium; Hydrogen Peroxide	Zoono Z-91 Microbe Shield	Zoono Holdings USA	SARS-CoV-2	1	Ready-to-use	Hard Nonporous (HN)	Hospital; Institutional; Residential	Tested against SARS-CoV-2 (COVID-19)
100629-2	Quaternary ammonium	Stize	Florida Biotech, LLC	Rhinovirus Type 39; Feline calicivirus	10	Ready-to-use	Hard Nonporous (HN); Food Contact No Rinse (FCNR)	Healthcare; Institutional; Residential	Kills a harder-to-kill pathogen than SARS-CoV-2 (COVID-19); Emerging viral pathogen claim
100766-1	Citric acid	Dolphin Green	Italkem SRL Unipersonale	Human Coronavirus	10	Ready-to-use	Hard Nonporous (HN)	Institutional	Kills a human coronavirus similar SARS-CoV-2 (COVID-19)

Safety Data Sheet

- **Section 1** – Identification
- **Section 2** – Hazard(s) Identification
- **Section 3** – Composition or Information on Ingredients
- **Section 4** – First Aid Measures
- **Section 5** – Fire-Fighting Measures
- **Section 6** – Accident Release Measures
- **Section 7** – Handling and Storage
- **Section 8** – Exposure Control and Personal Protection
- **Section 9** – Physical and Chemical Properties
- **Section 10** – Stability and Reactivity
- **Section 11** – Toxicological Information

Directions for Use

6 Steps for Safe & Effective Disinfectant Use

Step 1: Check that your product is EPA-approved
Find the EPA registration number on the product. Then, check to see if it is on EPA's list of approved disinfectants at: [epa.gov/listn](https://www.epa.gov/listn)

Step 2: Read the directions
Follow the product's directions. Check "use sites" and "surface types" to see where you can use the product. Read the "precautionary statements."

Step 3: Pre-clean the surface
Make sure to wash the surface with soap and water if the directions mention pre-cleaning or if the surface is visibly dirty.

Step 4: Follow the contact time
You can find the contact time in the directions. The surface should remain wet the whole time to ensure the product is effective.

Step 5: Wear gloves and wash your hands
For disposable gloves, discard them after each cleaning. For reusable gloves, dedicate a pair to disinfecting COVID-19. Wash your hands after removing the gloves.

Step 6: Lock it up
Keep lids tightly closed and store out of reach of children.

- RTU or dilution rate
- Application
- Special directions

Review the Entire List and Information Collected

Considerations

- Ease of use
- Effectiveness
- Contact time
- Surface compatibility
- Safety
- Disinfectant type
- Acceptance
- Cost

Remove any products that are not:

- EPA approved
- Hospital approved



Resources

- [6 Steps for Safe & Effective Disinfectant Use | EPA](#)
- [Select EPA-Registered Disinfectants | EPA](#)
- [List N Tool: COVID-19 Disinfectants | EPA](#)
- [List P Tool: Candida auris Disinfectants | EPA](#)
- [List H Tool: Methicillin-resistant Staphylococcus aureus \(MRSA\) or Vancomycin-resistant Enterococcus faecalis/faecium \(VRE\) | EPA](#)
- [List K Tool: Clostridioides difficile \(C. diff\) Spores | EPA](#)
- [List S Tool: Bloodborne Pathogens: Human Immunodeficiency Virus \(HIV\), Hepatitis B and Hepatitis C | EPA](#)
- [Chlorine Disinfectant Solution Preparation | CDC](#)

Resources Continued

- [Brief Hazard Communication Standard: Labels and Pictograms | OSHA](#)
- [Brief Hazard Communication Standard: Safety Data Sheets | OSHA](#)
- [Best Practices for Environmental Cleaning in Healthcare Facilities: in Resource-Limited Settings | CDC](#)
- [Cleaning and Disinfection Strategies for Non-Critical Surfaces and Equipment Presentation | CDC](#)
- [Disinfection and Sterilization Guideline | CDC](#)
- [Environmental Cleaning Procedures | CDC](#)
- [Guidelines for Environmental Infection Control in Health-Care Facilities | CDC](#)
- [Infection Control Assessment and Response \(ICAR\) Environmental Services \(Includes Surfaces and Equipment\) | CDC](#)

Office Hours Q&A

To ask questions, click on the **Chat** icon.

Raise your hand if you would like to ask a question verbally.



Next Office Hours: October 30, 2024

Teamwork to Address Your Facility's Respiratory Virus Transmission Challenges

Registration link: https://apic.zoom.us/meeting/register/tZlqcu-uqzwqHdSltb7_idpbUHeU1benm_NW

Today's Office Hours Evaluation link:
https://apic.qualtrics.com/jfe/form/SV_eVQ1HskHMrSef8G

CONNECT WITH US

Call 877.731.4746 or visit www.hqin.org



@HQINetwork

Health Quality Innovation Network

FOR MORE INFORMATION

Call 877.731.4746 or visit www.hqin.org

Mary Locklin, MSN, RN, CIC

Senior Quality Advisor, Infection Prevention

mlocklin@hqi.solutions