

# Cleaning Environmental Surfaces and Shared Equipment

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**Quality Improvement  
Organizations**  
Sharing Knowledge. Improving Health Care.  
CENTERS FOR MEDICARE & MEDICAID SERVICES

# Introduction and Welcome



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# Meet Your Speaker



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*QIN-QIO for Alaska, Hawaii, Montana, Wyoming,  
American Samoa, Guam, Commonwealth of the  
Northern Mariana Islands*

# Pathogens:

## Environmental Surfaces & Shared Equipment



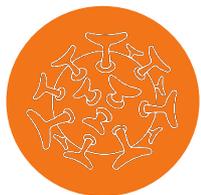
Pathogens = disease- or infection-causing microbes



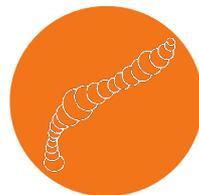
**Bacteria**  
(*strep, UTI*)



**Fungi**  
(*ringworm, yeast infection*)



**Viruses**  
(*cold, influenza*)



**Parasites**  
(*roundworm, malaria*)

# The Hand-Environment Connection



15  
surfaces  
1 patient



<https://www.cdc.gov/handhygiene/>

# Pathogens: Environmental Surfaces & Shared Equipment

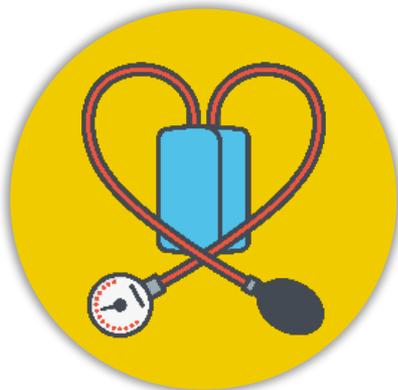


# Pathogens:

## Environmental Surfaces & Shared Equipment



Clean and disinfect shared equipment  
**between each resident use.**



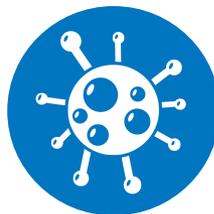
# Pathogen Lifespans on Surfaces



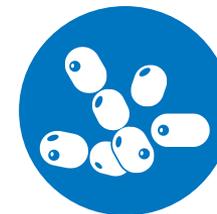
**SARS-CoV-2** ≈ several hours to days



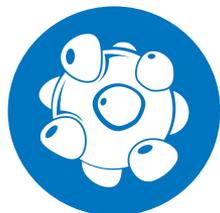
***Escherichia coli***  
1.5 hours to 16 months



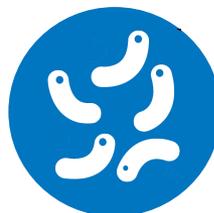
**Norovirus**  
8 hours to 7 days



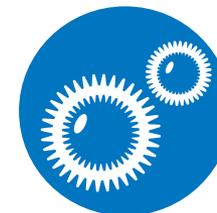
***Enterococcus* spp**  
5 days to 4 months



**Hepatitis B virus**  
> 1 week



***Clostridioides difficile***  
(spores) 5 months



***Staphylococcus aureus***  
7 days to 7 months

# Cleaning vs. Disinfecting



1

**Cleaning**  
removes dirt,  
body fluids,  
etc., and some  
germs.

2

**Disinfecting**  
destroys  
pathogens and  
kills germs.



# Selecting the Right Disinfectant Product

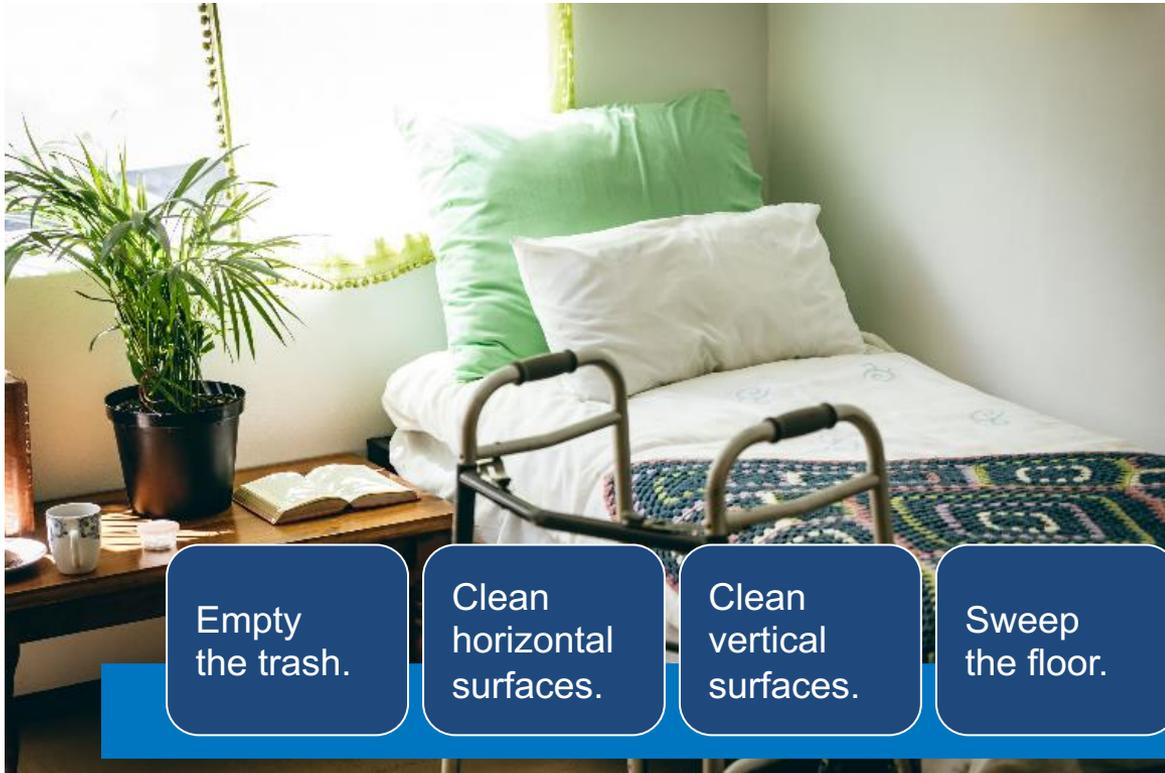


- 1 Kill Claims
- 2 Contact (Kill) Time
- 3 Safety
- 4 Ease of Use
- 5 Other Factors

List N: Disinfectants for Use against SARS-CoV-2

<https://www.epa.gov/pesticide-registration/list-n-disinfectants-use-against-sars-cov-2-covid-19>

# Order Matters: Cleaning Residents' Rooms



Clean high to low  
(top to bottom),  
cleanest to  
dirtiest

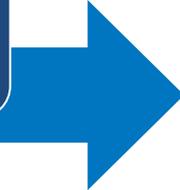
Empty  
the trash.

Clean  
horizontal  
surfaces.

Clean  
vertical  
surfaces.

Sweep  
the floor.

Mop  
the floor.



# Order Matters: Cleaning Restrooms



Stock supplies.

Empty the trash.

Clean sink and tub (horizontal surfaces).

Clean walls (vertical surfaces).

Clean the toilet.

Sweep the floor.

Mop the floor.



# Linen Management



Linen can transmit pathogens via:

- Direct contact with contaminated linens
- Aerosols generated from sorting and handling contaminated linen
- Inappropriate storage and transportation

# Linens Management



Handle, transport and store linens appropriately.



# Environmental Cleaning: Policies & Procedures



1  Roles/responsibility

4  Steps and processes

2  Inventory, storage and maintenance

5  Scenario planning and instructions

3  Frequency of cleaning/disinfecting

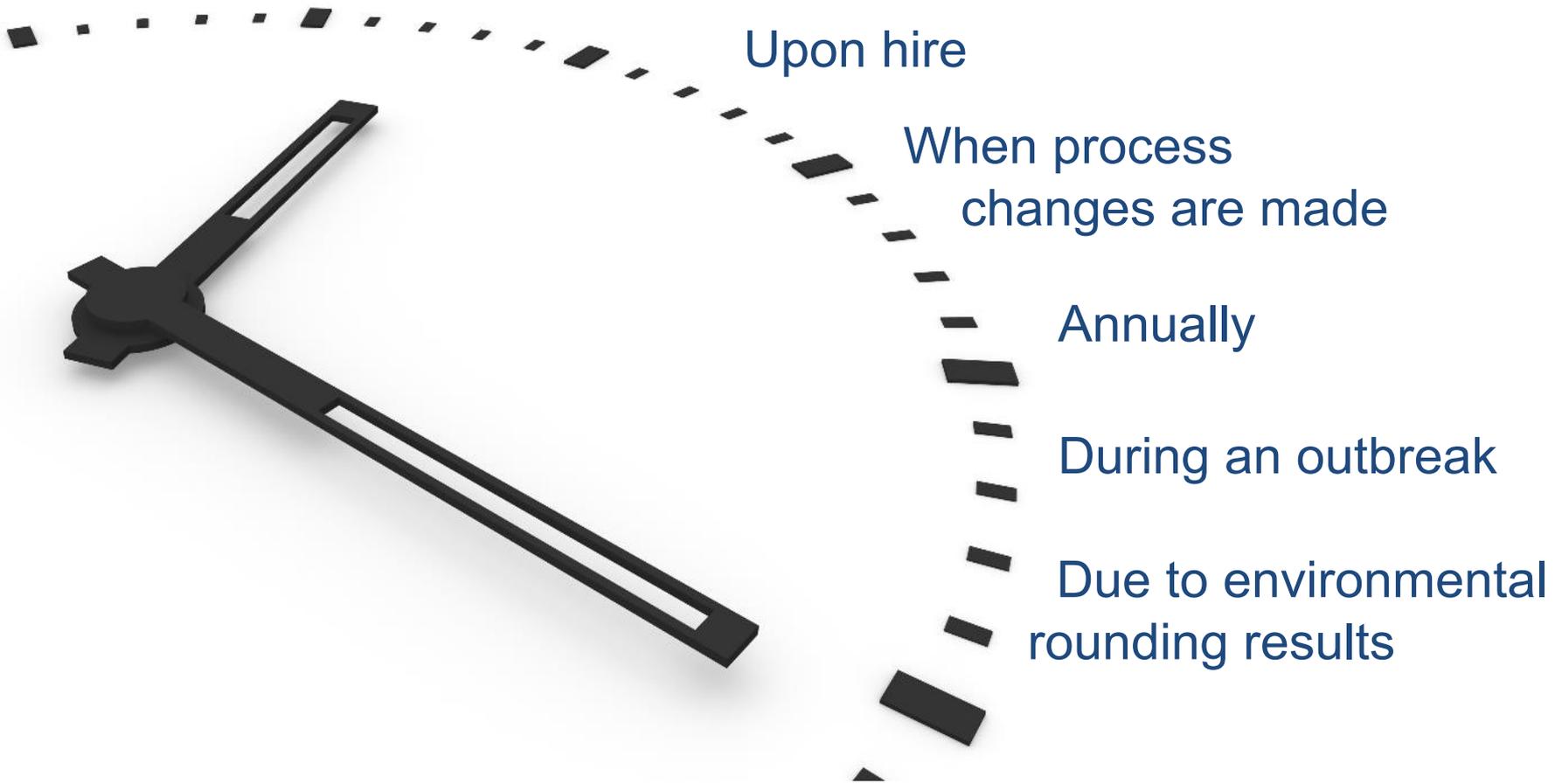
6  Monitoring and assessment

# Environmental Cleaning: Staff and Supplies



- Provide infection prevention training.
- Stock cleaning and disinfectant products.
- Read and follow directions.
- Stock personal protective equipment (PPE).
- Stock other supplies (e.g., hand towels, hand sanitizer, etc.).

# Environmental Cleaning: Training for Staff



# Environmental Cleaning: Increased Compliance



- ❑ Use a checklist.
- ❑ Conduct observations, audits and performance monitoring.
- ❑ Keep supplies and equipment stocked and maintained.
- ❑ Establish two-way communication.
- ❑ Provide accessible procedures for easy referencing.
- ❑ Make signage visible.
- ❑ Use health care worker's native language.
- ❑ Consider residents with dementia.

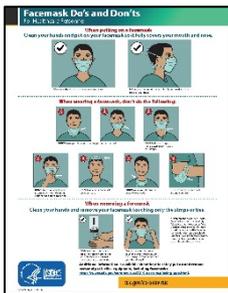
(For more information:  
<https://www.cdc.gov/coronavirus/2019-ncov/hcp/memory-care.html>)



# For Your Toolbox



Signage and postings provide valuable reminders for **all** staff at every level.



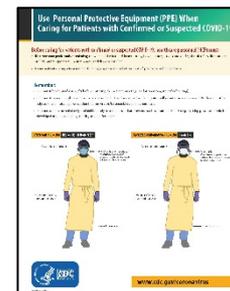
<https://www.cdc.gov/coronavirus/2019-ncov/downloads/hcp/fs-facemask-dos-donts.pdf>



<https://www.cdc.gov/handhygiene/pdfs/Provider-Poster-Clean-Hands-Count-For-My-Patients-508.pdf>



[www.cdc.gov/hai/pdfs/containment/enhanced-barrier-precautions-sign-P.pdf](http://www.cdc.gov/hai/pdfs/containment/enhanced-barrier-precautions-sign-P.pdf)



[https://www.cdc.gov/coronavirus/2019-ncov/downloads/A\\_FS\\_HCP\\_COVID19\\_PPE.pdf](https://www.cdc.gov/coronavirus/2019-ncov/downloads/A_FS_HCP_COVID19_PPE.pdf)

# For Your Toolbox



**CDC Environmental Checklist for Monitoring Terminal Cleaning<sup>1</sup>**

<b>Date:</b>	
<b>Unit:</b>	
<b>Room Number:</b>	
<b>Initials of ES staff (optional):<sup>2</sup></b>	

**Evaluate the following priority sites for each patient room:**

High-touch Room Surfaces <sup>3</sup>	Cleaned	Not Cleaned	Not Present in Room
Bed rails / controls			
Tray table			
IV pole (grab area)			
Call box / button			
Telephone			
Bedside table handle			
Chair			
Room sink			
Room light switch			
Room inner door knob			
Bathroom inner door knob / plate			
Bathroom light switch			
Bathroom handrails by toilet			
Bathroom sink			
Toilet seat			
Toilet flush handle			
Toilet bedpan cleaner			

**Evaluate the following additional sites if these equipment are present in the room:**

High-touch Room Surfaces <sup>3</sup>	Cleaned	Not Cleaned	Not Present in Room
IV pump control			
Multi-module monitor controls			
Multi-module monitor touch screen			
Multi-module monitor cables			
Ventilator control panel			

**Mark the monitoring method used:**

<input type="checkbox"/> Direct observation	<input type="checkbox"/> Fluorescent gel	<input type="checkbox"/> Agar slide cultures
<input type="checkbox"/> Swab cultures	<input type="checkbox"/> ATP system	

<sup>1</sup>Selection of detergents and disinfectants should be according to institutional policies and procedures  
<sup>2</sup>Hospitals may choose to include identifiers of individual environmental services staff for feedback purposes.  
<sup>3</sup>Sites most frequently contaminated and touched by patients and/or healthcare workers

National Center for Emerging and Zoonotic Infectious Diseases  
 Division of Healthcare Quality Promotion

<https://www.cdc.gov/hai/pdfs/toolkits/Environmental-Cleaning-Checklist-10-6-2010.pdf>

# Wait for it!



Receive attendance credit and **access your Certificate of Participation** by clicking the blue **Access Certificate** button at the very end of this training.

It may take a moment for the screen to appear. **Thank you for your patience.**



THANK YOU