Project Firstline

Project Firstline gives frontline staff the infection control and prevention tools and information they need to protect themselves, their facility, their family and their community from infectious disease threats, such as COVID-19.

Encourage your staff to join today

hanys.org/project_firstline

Agenda

- Welcome and Introductions
- How Germs Spread and Make People Sick
- How Can an Infection Occur?
- Bringing It Together
- Conclusion

What is your roll in your organization?

a. Infection Prevention

b. Quality

c. Nursing

d. Technician/aide

e. Administrator

f. Environmental Services

g. Non-patient facing

What type of healthcare facility are you working in?

a. Hospital in-patient

b. Hospital out-patient

c. Skilled nursing facility or nursing home

d. Outpatient office or clinic

e. EMS

f. other

How Germs Spread and Make People Sick

PROJECT
FIRSTLINE
CDC's National Training Collaborative
for Healthcare Infection Prevention & Control

How Germs Spread

PROJECT **FIRST** LINE
CDC's National Training Collaborative
for Healthcare Infection Prevention & Control

Video:
How Germs Spread in Healthcare

https://www.cdc.gov/infectioncontrol/projectfirstline/videos/HowGermsSpread-LowRes.mp4

Five Elements of How Germs Spread and Cause Infection

Reservoirs

Person

Pathways

Body's defenses

Germ survival

PROJECT **FIRST** LINE
CDC's National Training Collaborative
for Healthcare Infection Prevention & Control

Reservoirs

Pathways

A Person to Infect

Getting around the Body's Defenses

Survival

PROJECT
FIRST LINE
CDC's National Training Collaborative
for Healthcare Infection Prevention & Control
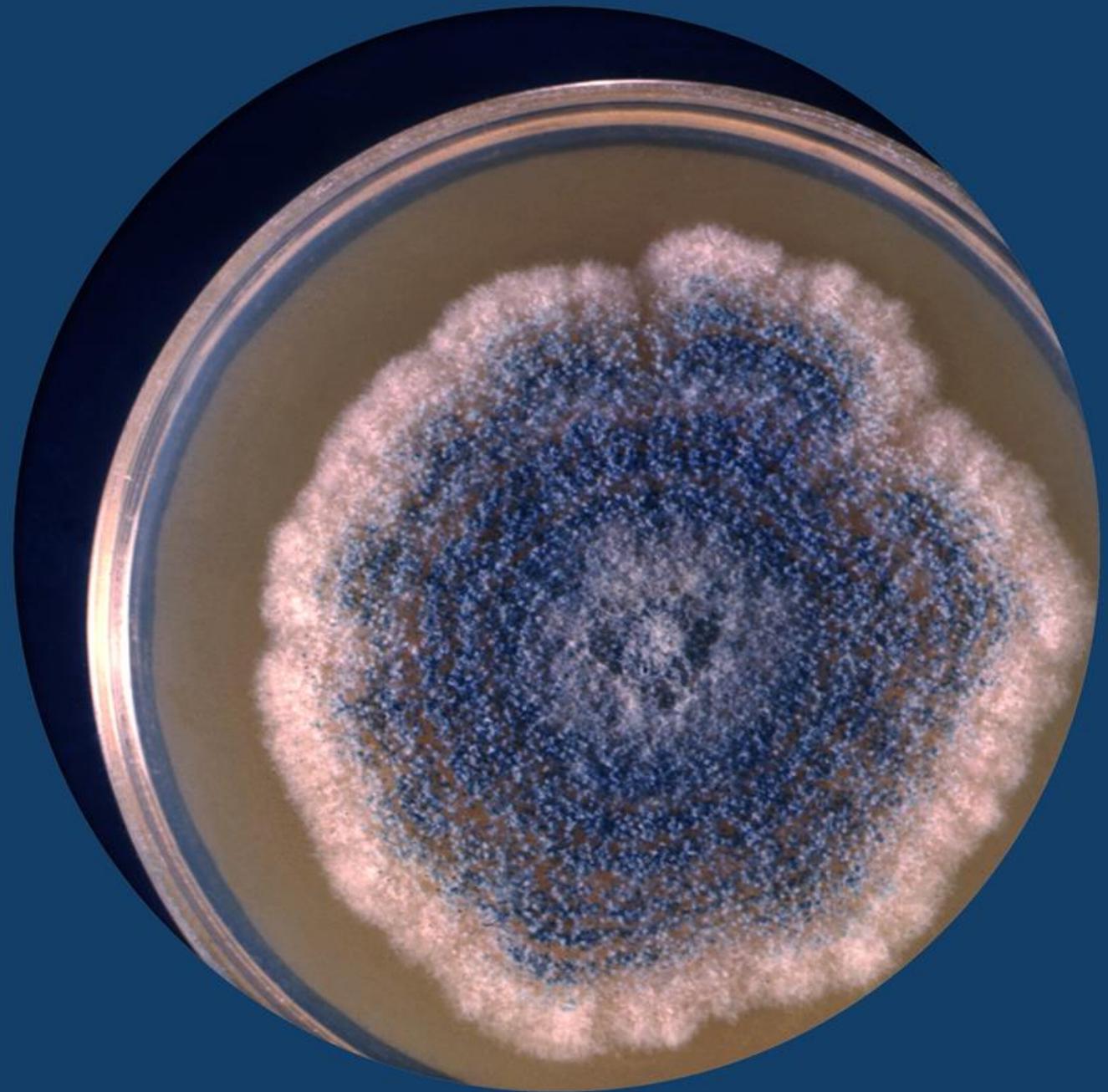
How Germs Spread in Healthcare: Four Main Pathways

1 **Through touch**

2 **When they're breathed in**

3 **Through splashes or sprays**

4 **Through clinical care tasks that bypass or break down the body's natural defenses**

PROJECT **FIRST** LINE
CDC's National Training Collaborative
for Healthcare Infection Prevention & Control

Knowing Where Germs Live and How They Spread Helps You Recognize Risk
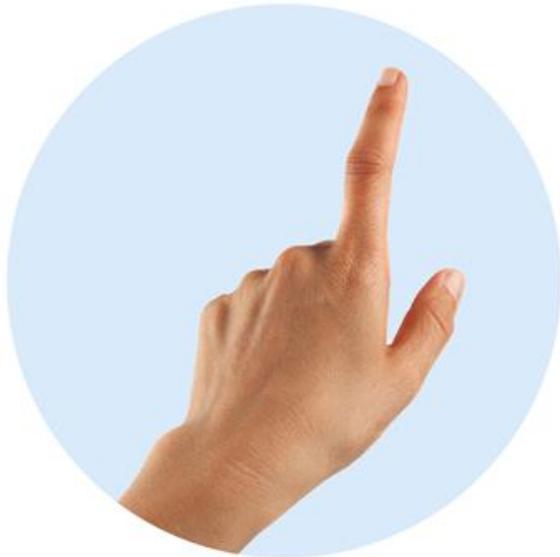
Reservoir

Pathway

Recognize the risks and take infection control actions

How Can an Infection Occur?

Scenarios: How Can an Infection Occur?

- Example scenario:
  - o Start with a germ and a reservoir.
  - o Walk through the five elements of germ spread.
- Create your own scenario!

PROJECT **FIRST** LINE
CDC's National Training Collaborative
for Healthcare Infection Prevention & Control

Strep on a Healthcare Worker's Hand

Germ:
Strep

**Reservoir:**
Healthcare worker's hand

Five Elements:

1. Reservoirs

2. Pathways

3. Person

4. Body's defenses

5. Survival

Example Scenario

How Germs Spread and Make People Sick
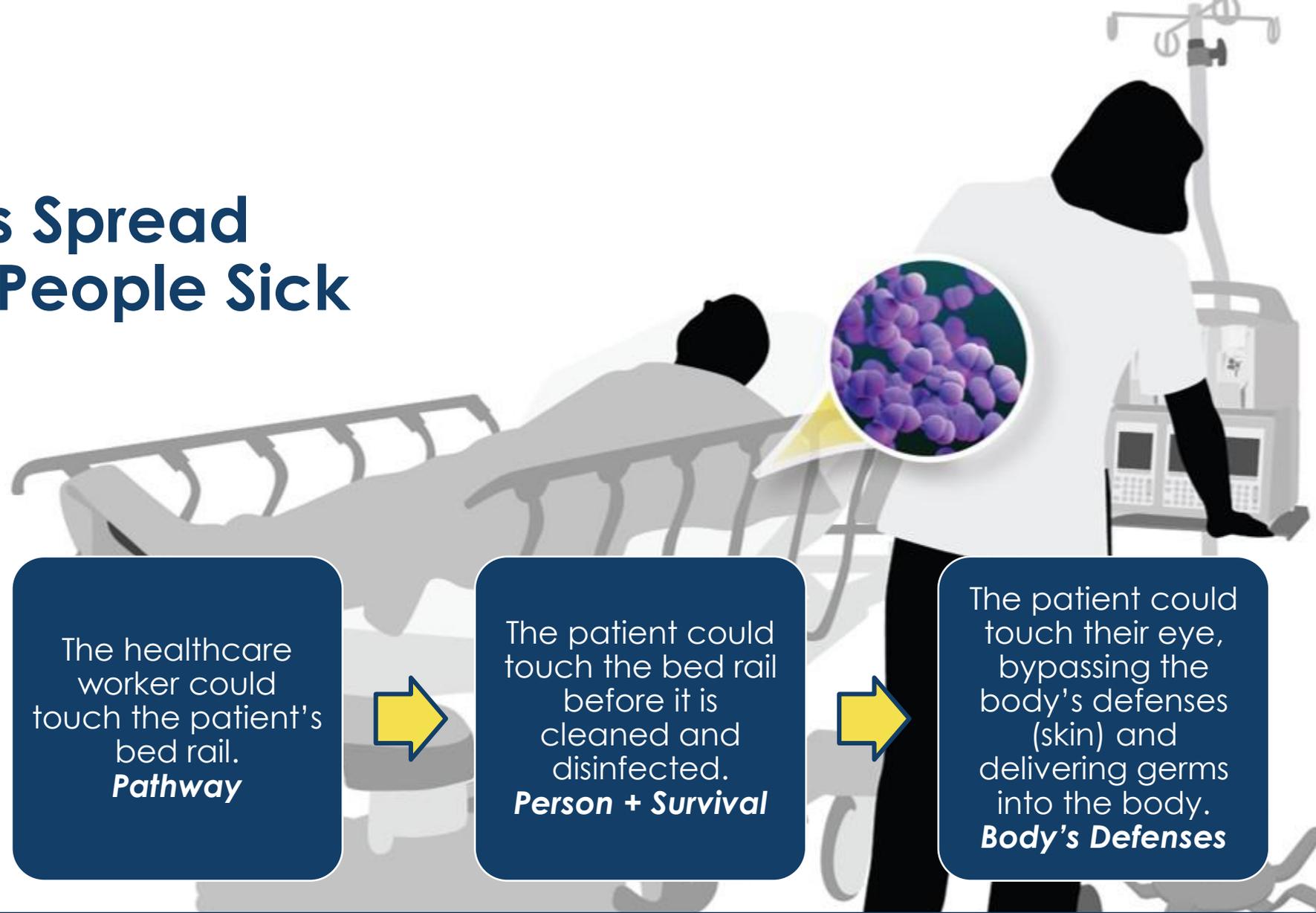
The germ is on the healthcare worker's hands (skin)
Reservoir

→

The healthcare worker could touch the patient's bed rail.
Pathway

→

The patient could touch the bed rail before it is cleaned and disinfected.
Person + Survival

→

The patient could touch their eye, bypassing the body's defenses (skin) and delivering germs into the body.
Body's Defenses

Create Your Own Scenario

E. coli in a patient's gut

C. difficile on a blood pressure cuff

Pseudomonas in a water faucet

Five Elements of How Germs Spread and Cause Infection

Reservoirs

Person

Pathways

Body's defenses

Germ survival

Scenario Summaries

E. coli in a patient's gut

C. difficile on a blood pressure cuff

Pseudomonas in a water faucet

PROJECT **FIRST** LINE
CDC's National Training Collaborative
for Healthcare Infection Prevention & Control

Bringing It Together

Reflection

- Thinking about your daily work, can you identify any of your tasks that are related to any of the five elements?

- Jot down in your participant booklet two actions you can take to stop the spread of germs to you or your patients.
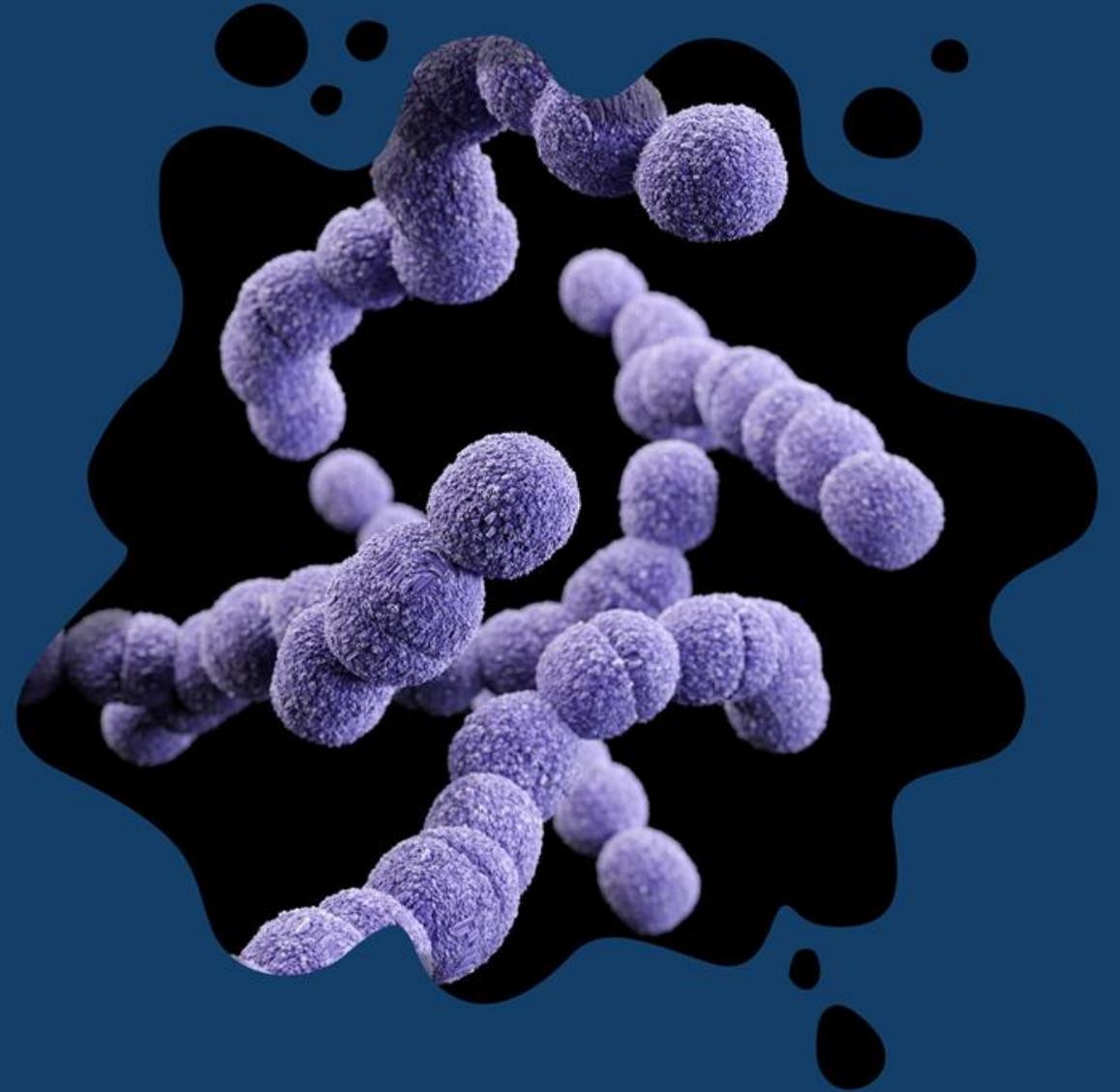
Key Takeaways

✓ Five elements for a germ to spread and cause an infection: reservoir, pathway, person to infect, getting around the body's defenses, survival.

✓ Infection control actions at any one of these key points stop germs from spreading and causing infection.

✓ Main pathways for germs to spread in healthcare: touch, breathing in, splashes or sprays, bypassing or breaking down the body's natural defenses.

PROJECT
FIRSTLINE
CDC's National Training Collaborative
for Healthcare Infection Prevention & Control

Questions

PROJECT
FIRSTLINE
CDC's National Training Collaborative
for Healthcare Infection Prevention & Control
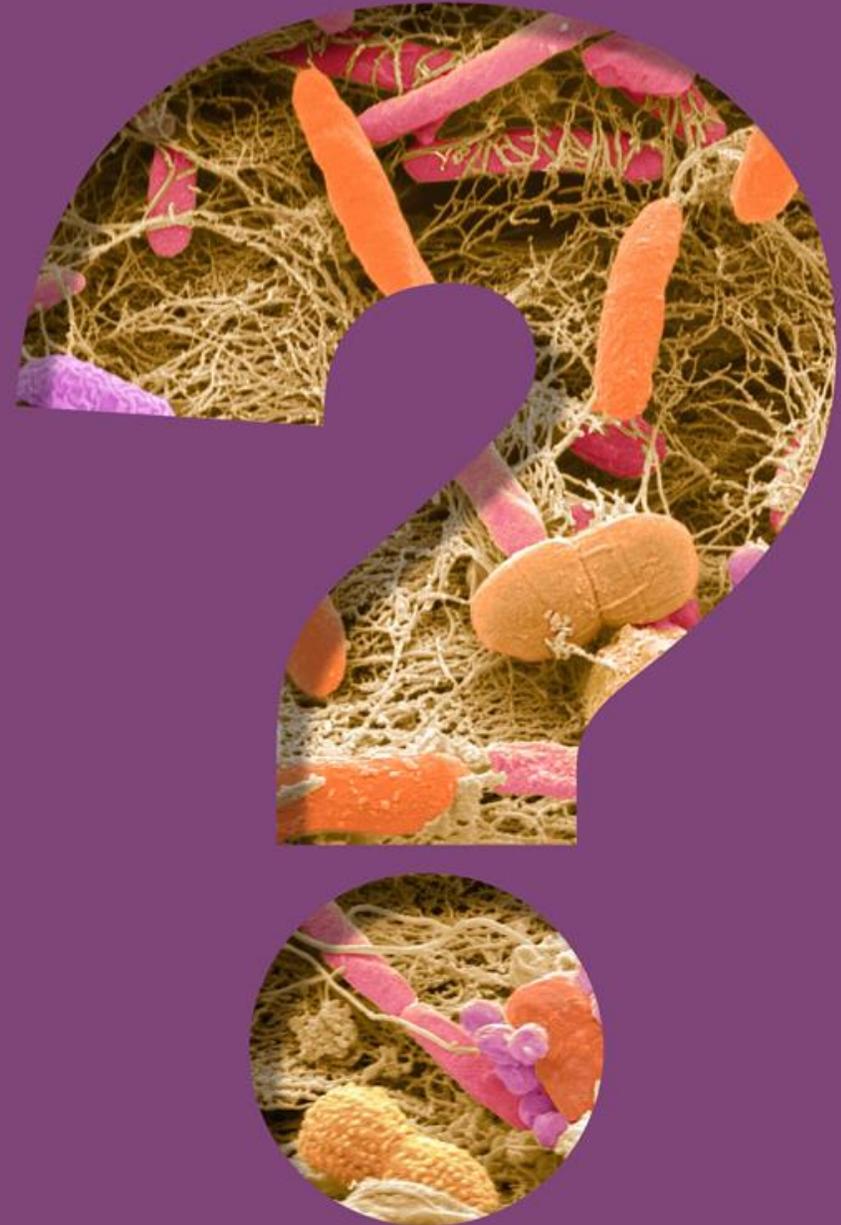
Project Firstline

Infection control and prevention training
Tailored for the healthcare workforce

Upcoming webinars (all sessions 9 – 9:30 a.m.)

September 1   Recognizing risk: A review

Recordings (hanys.org/project_firstline)

The concept of infection control training

The basic science of viruses

How respiratory droplets spread COVID-19

How viruses spread from surfaces to people

How COVID-19 spreads: A review

Environmental Cleaning and Disinfection

Source Control in healthcare to prevent infections

Hand Hygiene

What does it mean to recognize risk?

How germs make people sick

PROJECT **FIRST** LINE
CDC's National Training Collaborative for Healthcare Infection Prevention & Control

HANYS®
Always There for Healthcare

How to Get Involved and Feedback

Project Firstline on CDC:
https://www.cdc.gov/infection control/projectfirstline/index.html

CDC's Project Firstline on Facebook:
https://www.facebook.com/CDCProjectFirstline

CDC's Project Firstline on Twitter:
https://twitter.com/CDC_Firstline

Project Firstline *Inside Infection Control* on YouTube:
https://www.youtube.com/playlist?list=PLvrp9iOILTQZQG tDnSDGViKDdRtIc13VX

To sign up for Project Firstline e-mails, click here:
https://tools.cdc.gov/campaignproxyservice/subscriptions.aspx?topic_id=USCDC_2104

- *How Germs Spread in Healthcare* video clip:
https://www.cdc.gov/infectioncontrol/projectfirstline/videos/HowGermsSpread-LowRes.mp4

- Project Firstline feedback form:
https://www.cdc.gov/infectioncontrol/pdf/projectfirstline/TTK-ParticipantFeedback-508.pdf

- HANYS Project Firstline https://www.hanys.org/quality/collaboratives_and_learning_networks/project_firstline/