



Welcome!

NACCHO Healthcare Infection **Prevention and Control Summit:**

Equip, Collaborate, and Innovate for Success

















Disclosure

Project Firstline is a national collaborative led by the U.S. Centers for Disease Control and Prevention (CDC) to provide infection control training and education to frontline healthcare workers and public health personnel. National Association of County and City Health Officials (NACCHO) is proud to partner with Project Firstline to host the NACCHO Healthcare Infection Prevention and Control Summit (Summit), as supported through CDC Grant # 6NU380T000306-03-05. CDC is an agency within the Department of Health and Human Services (HHS). This presentation is being hosted as part of the Summit; the contents of this presentation and Summit do not necessarily represent the policies of CDC or HHS and should not be considered an endorsement by the Federal Government.





Things to Know:

- Agenda
- Main Sessions
- Breakout Sessions
- Session Evaluations
- Passport to IPC
- Meals
- Certificate of Attendance
- Accessibility: State Street Elevators



Agenda Schedule Change

- Today at 11am in Salon 1
 The Project Firstline Escape Room and
 Other IPC Education and Communication Tools
- Wednesday at 10:30 in Salon 1
 Leveraging Data to Support Infection
 Preventionists: Insights and Strategic Priorities
 from a Comprehensive Needs Assessment





Exhibit Hall Hours Today

- Pre-Conference: 7:30am 9:00am
- Lunch: 12:00pm 1:30pm
- Afternoon Exhibit Hall Spotlight Session: 3:45pm-4:15pm
 -Followed by Chicago's Urban Historian, Dilla!





#NACCHOIPCSummit







Christina Baum, MPH
Director of Infectious Disease
NACCHO







Sara Black, MPA, MSW
Senior Advisor for Programs
NACCHO





Main Session

IPC Basics

Training Infection Prevention through Simulation (TIPS)
University of Washington



Training Infection Prevention through Simulation

This project is supported by the Centers for Disease Control and Prevention/Project Firstline







bit.ly/3UFEPWC



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TIPS TEACHING TEAM

Ylinne Lynch, MD, MS (Project PI)

Assistant Professor, Division of Pulmonary, Critical Care, and Sleep Medicine

Liza Rosenman, MD (Project PI)

Associate Professor,
Department of Emergency Medicine
Adjunct Assistant Professor,
Division of Healthcare Simulation Science



Colleen Farrell

TIPS Project Manager
Department of Emergency Medicine

Megan Sherman, MAEdHD

Associate Director WWAMI Institute for Simulation in Healthcare (WISH)

Laura Flood, RN, BSN, IP

Clinical Nurse Educator
Department of Emergency Medicine

THE LARGER TIPS TEAM – It takes a village

Jenny Garnett, MFA, CST

Simulation Instructional Designer WWAMI Institute for Simulation in Healthcare (WISH)

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Clinical Director of Team Performance WWAMI Institute for Simulation in Healthcare (WISH)

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Elizabeth Sanders, PhD

Associate Professor Measurement and Statistics UW College of Education

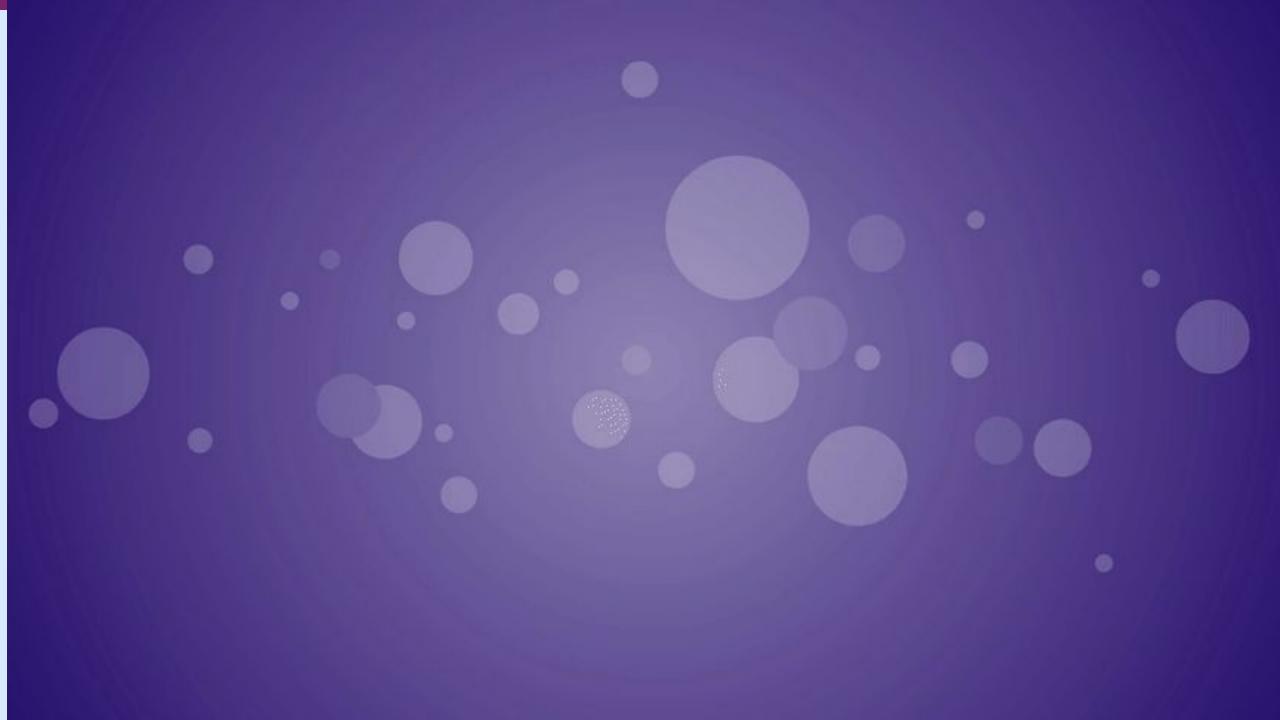
Min Li, PhD

Professor

Measurement and Statistics

UW College of Education







Sort yourselves amongst your group from highest to lowest perceived risk





Compare groups





Take home points?



OBJECTIVES

5

By the end of this session, you will be able to:

- Describe how germs are spread
- Define the Three "I"s (Identify, Isolate, Inform)
- Explain how healthcare workers assess and mitigate risk





MEET TIPPY



Are you teaching me or teaching me how to teach?



In a word, BOTH!
But Tippy will help us to point it out.



WHY SHOULD WE CARE ABOUT IPC?





Source: University Health Handwashing Video (youtube.com)

Using a video can help learners visualize a point.

You don't have to be George Lucas – there's lots of great content out there!



5 ELEMENTS OF GERM SPREAD







HOW GERMS SPREAD



Germ habitat

- Break in skin, blood
- Water/wet surfaces
- Dry Surfaces (dirt/dust)
- Respiratory system
- Devices



HOW GERMS SPREAD

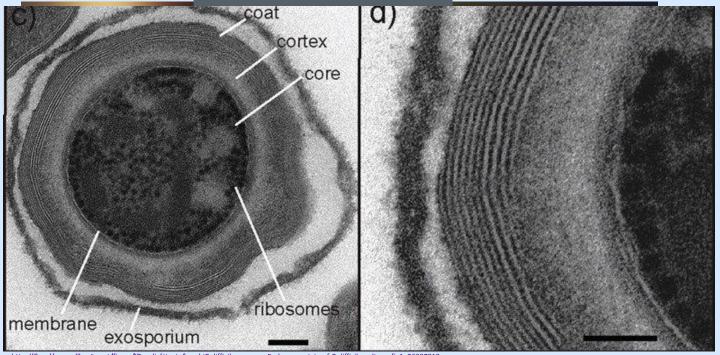


Germ Survival

Need to survive to make people sick

- Some germs can survive harsh conditions
- Understanding what the germ is helps you mitigate risk

C. difficile, spore form



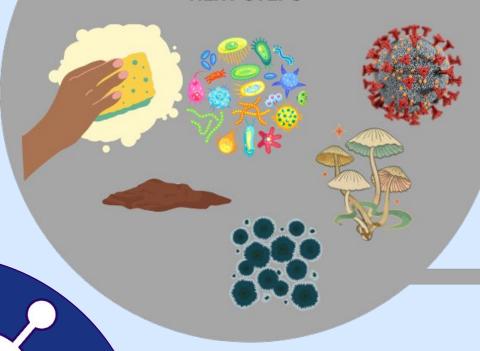


STOP THE SPREAD: RESERVOIRS, GERM SURVIVAL



Cleaning

REMOVES VISIBLE DIRT/DOES NOT KILL
GERMS. MUST BE DONE FIRST BEFORE
NEXT STEPS





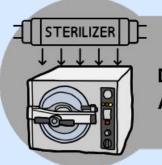
Sanitization

REDUCES THE NUMBER OF SOME GERMS ON OBJECTS AND SURFACES



Disinfection

KILLS/INACTIVATES MOST GERMS
ON SURFACES WITH CHEMICALS



Sterilization

DESTROYS ALL FORMS GERMS ON SURFACES
AND IN FLUIDS WITH EXTREME CHEMICAL OR
PHYSICAL PROCESS

HOW GERMS SPREAD: PATHWAYS



Pathway s

How germs move from person or place

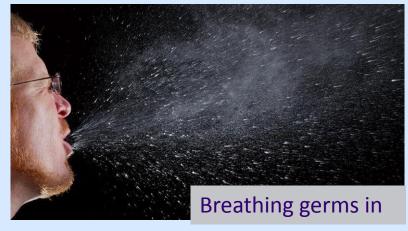


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HOW GERMS SPREAD: PERSON



Person

Someone to infect

- Patient
- HCW
- Visitors
- Immunocompromised



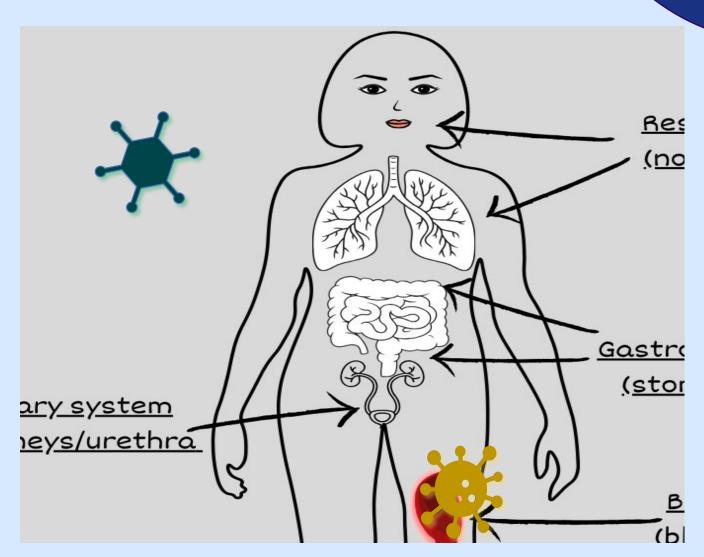


HOW GERMS SPREAD

Body's Defenses

Breaks down or bypasses protections

 Must get past body's natural barriers



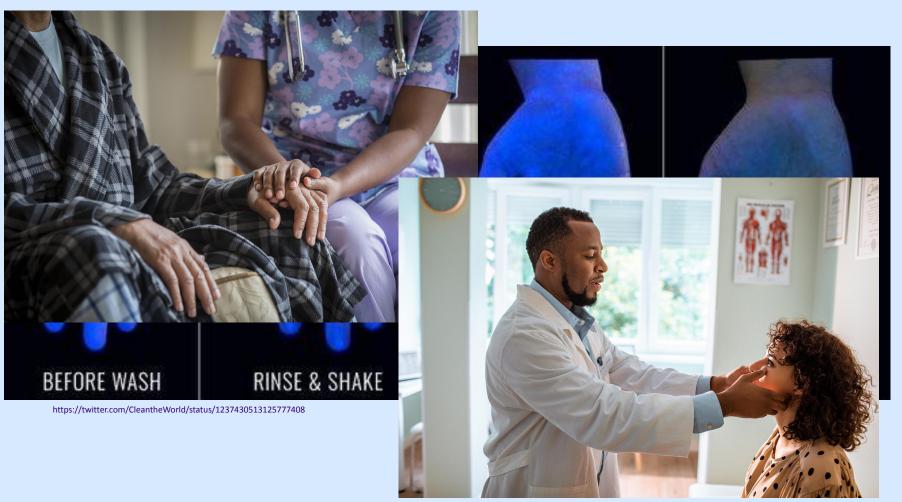




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All of us can protect

- PPE use
- Limiting invasive devices
- Cleaning your hands



PUTTING IT ALL TOGETHER



Reservoir

Germs
spread to pulse
oximeter from
a sick patient



Germ Survival

 HCW fails to clean/sanitize device between patients



Pathway

 HCW places contaminated device on next patient's hand



Person

 Elderly patient with heart condition is more at risk for infection



Body's Defenses

 Patient rubs their face with contaminated hand without hand hygiene







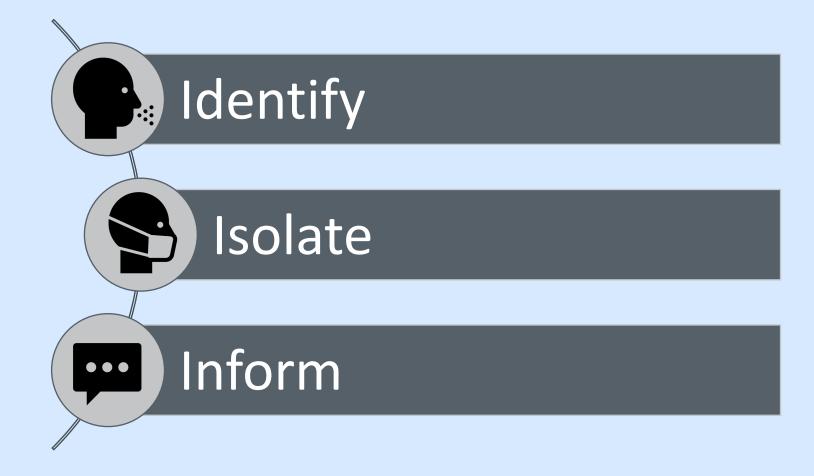






THE 3 I'S







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Identify people with symptoms of possible infection



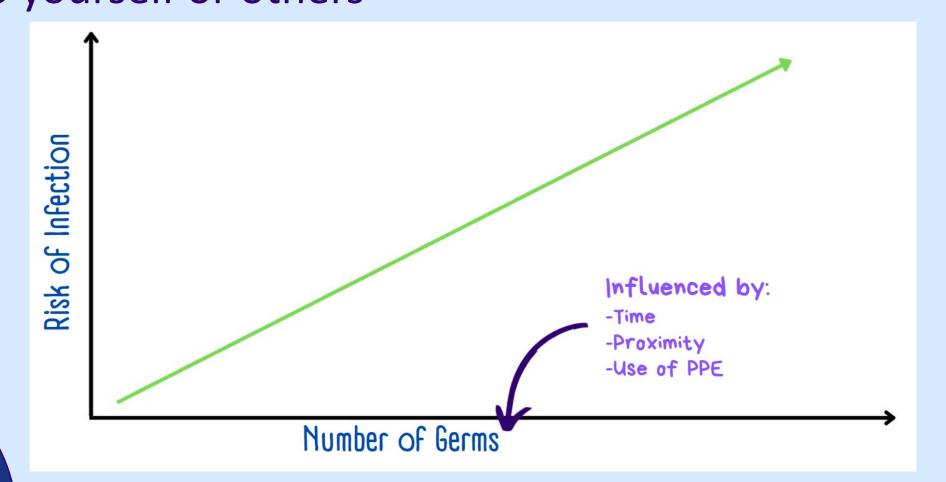






ISOLATE

Isolate patients to prevent the spread of infection to yourself or others

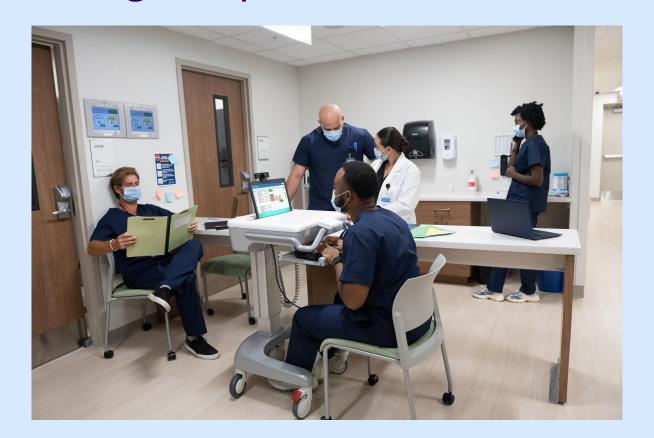






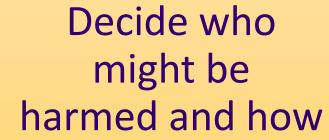
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Inform the appropriate people about the presence of a potentially contagious person



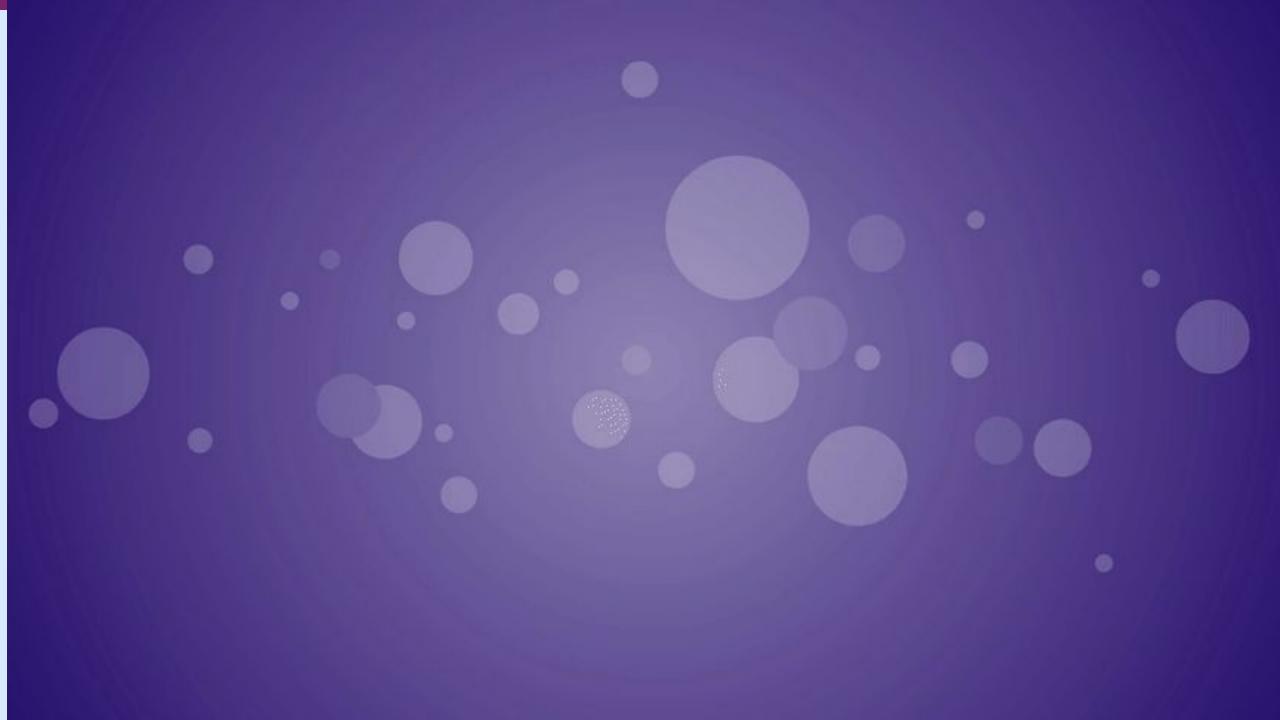


Identify the hazards









MITIGATING RISK: INJURY BY MOTOR VEHICLE



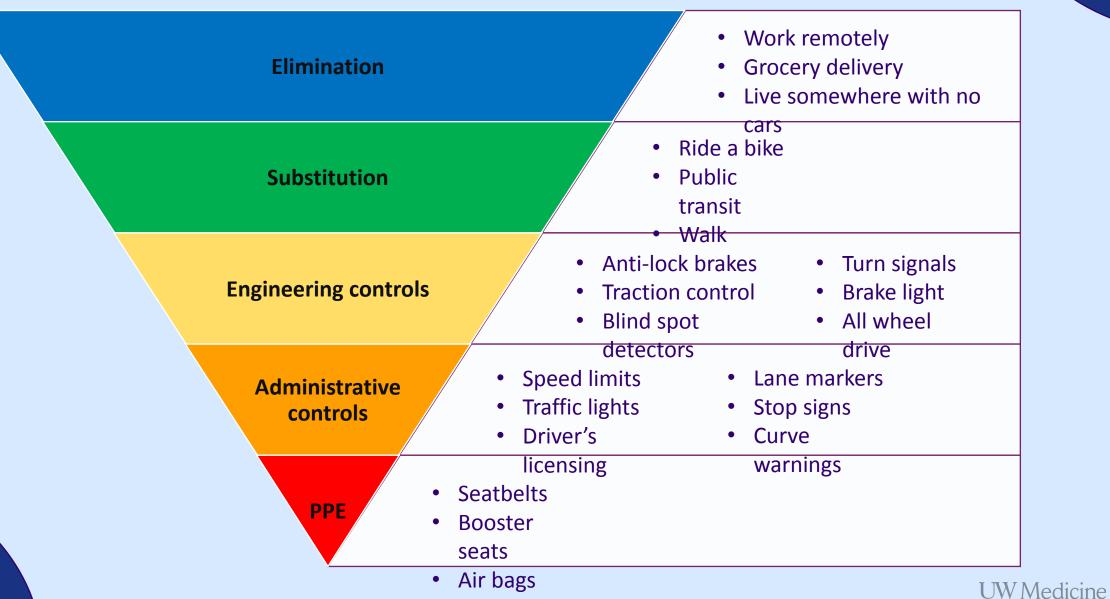


LET'S GO OVER IT TOGETHER:



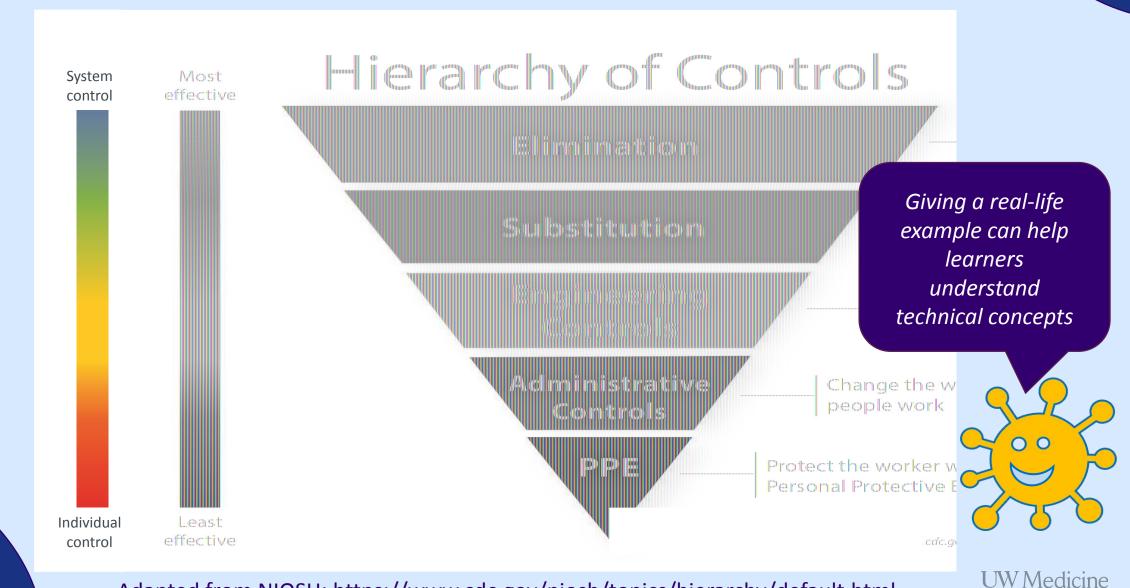


HIERARCHY OF CONTROLS



MITIGATING RISK





Adapted from NIOSH: https://www.cdc.gov/niosh/topics/hierarchy/default.html

PUTTING IT ALL TOGETHER



Identify the hazards



Decide who might be harmed and how



Decide on an action to mitigate the hazard











PUTTING IT ALL TOGETHER

5

Identify the hazards

Decide who might be harmed and how

Decide on an action to mitigate the hazard









TRANSMISSION-BASED PRECAUTIONS











CONTACT PRECAUTIONS

Pathway: Touch

PPE: Gown and gloves

Examples: Multi-drug resistant

organisms, scabies



DROPLET PRECAUTIONS

Pathway: Breathing, splashes and sprays

PPE: Mask and eye protection

 Some facilities might require gowns/face shields

Examples: Common cold, influenza





AIRBORNE PRECAUTIONS

Pathway: Breathing

PPE: N-95 respirator

 Patients should be in a negative airflow room with the door closed

Example: Tuberculosis





NO KNOWN INFECTION



Assume all people <u>could</u> have an infectious disease.

Standard Precautions:

- Task-appropriate PPE
- Clean hands when entering and leaving the room and after touching the patient





WHEN IS SOAP AND WATER PREFERRED?

5

- Hands are visibly dirty
- After contact with someone who has a difficult to kill organism
 - C. difficile
 - Norovirus
- After using the bathroom
- Before eating





Benefit is only achieved with thorough technique

CONCLUSION

The 5 elements of germ spread (reservoirs, germ survival, pathways, patient, and body defenses) help us understand the risk for getting an infection and the best ways to stop the spread.

Assessing and mitigating risk for germ spread are things that we do constantly in our every day lives.

The three I's – identify, isolate, and inform – is a framework for assessing and mitigating risk of germ spread for patients with possible infection.









bit.ly/4dnCiHO





Ways to Stay Connected and Get Involved!

Email: <u>uwtips@uw.edu</u>

Website: wish.washington.edu/tips

Mighty Network: <u>uw-tips-project.mn.co/</u>





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