

## Back to the Basics

Jennifer Brinegar, BSN, RN, and Sara Reese, BSN, RN

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### **OUR MISSION:**

To promote, protect, and improve the health and safety of all Hoosiers.

### **OUR VISION:**

Every Hoosier reaches optimal health regardless of where they live, learn, work, or play.



# **Objectives**

- Identify and discuss basic principles of infection control
- Explain standard, transmission-based and enhanced barrier precautions
- Discuss the importance of rounding
- Respiratory Hygiene and Cough Etiquette—what are they?



# **Principles of Infection Control**

There are 5 basic principles for infection control:

- Hand hygiene
- Personal protective equipment
- Injection safety
- Environmental cleaning/rounding
- Respiratory hygiene and cough etiquette



# **Hand Hygiene**

- Hand hygiene is the #1 intervention proven to prevent healthcareassociated infections and the spread of drugresistant organisms.
- CDC recommends ABHR in most clinical situations.
- HCPs, on average, perform hand hygiene less than half of the times that they should.
- Areas frequently missed when cleaning hands:
  - Thumbs, fingertips, between fingers







# When is Hand Hygiene Needed?

## **Key moments**

- Before and after contact with a resident/patient
- After contact with the resident/patient's environment
- Immediately after touching blood, body fluids, non-intact skin, mucous membranes or contaminated items (even if you were wearing gloves during the contact)
- Immediately after removing gloves
- When hands are visibly soiled

# Areas of missed opportunity

- Before donning and after doffing PPE
- Prior to preparing medications
- After eating meals
- After using shared equipment (computers, pens, phones, etc.)
- Resident hand hygiene





# Personal Protective Equipment

## **Knowing the proper PPE to use**

- Standard precautions
- Transmission-based precautions
- Enhanced barrier precautions

## When and how long

 Guideline for Isolation Precautions: Preventing Transmission of Infectious Agents in Healthcare Settings (2007)

https://www.cdc.gov/infectioncont rol/guidelines/isolation/appendix/ type-duration-precautions.html



## **Standard Precautions**

The precautions HCPs take with each encounter to protect themselves from infection and prevent the spread of infection from between residents/patients.

### Risk assessment:

- Exposure to blood, bodily fluids?
- Possibility of splash?



## **Transmission-based Precautions**







Signage should alert which PPE is required prior to entry.



## **Enhanced Barrier Precautions**

## What it is and why is it used?

- Expansion of standard precautions beyond blood and body fluids
- More specific than standard precautions, less restrictive than contact precautions
- High-contact care activities





## **Proper Use of PPE**

- Hand hygiene prior to donning
- Donning prior to entering the environment
- Donning in proper sequence
- Doffing prior to exiting the environment
- Doffing in proper sequence
- Hand hygiene after doffing PPE

#### SEQUENCE FOR PUTTING ON PERSONAL PROTECTIVE EQUIPMENT (PPE) he type of PPE used will vary based on the level of precautions required, such as standard and contact, droplet or airborne infection isolation precautions. The procedure for putting on and removing PPE should be tailored to the specific 1. GOWN Fully cover torso from neck to knees, arms to end of wrists, and wrap around the back Fasten in back of neck and waist 2. MASK OR RESPIRATOR Secure ties or elastic bands at middle of head and neck Fit flexible band to nose bridge

#### · Fit-check respirator

3. GOGGLES OR FACE SHIELD · Place over face and eyes and adjust to fit

Fit snug to face and below chin



#### 4. GLOVES

· Extend to cover wrist of isolation gown



#### USE SAFE WORK PRACTICES TO PROTECT YOURSELF AND LIMITTHE SPREAD OF CONTAMINATION

- . Keen hands away from face
- . Limit surfaces touched
- . Change gloves when torn or heavily contaminated
- · Perform hand hygiene



#### HOW TO SAFELY REMOVE PERSONAL PROTECTIVE EQUIPMENT (PPE) **EXAMPLE 1**

There are a variety of ways to safely remove PPE without contaminating your clothing, skin, or mucous membranes with potentially infectious materials. Here is one example. Remove all PPE before exiting the patient room except a respirator, if worn. Remove the respirator after leaving the patient room and closing the door. Remove PPE in the following sequence:

#### 1. GLOVES

- Outside of gloves are contaminated
- If your hands get contaminated during glove removal, immediate wash your hands or use an alcohol-based hand sanitizer Using a gloved hand, grasp the palm area of the other glove and peel off first glove
- Hold removed glove in gloved hand
- Slide fingers of ungloved hand under remaining glove at wrist as
- Discard gloves in a waste container

#### 2. GOGGLES OR FACE SHIELD

- Outside of goggles or face shield are contaminated
- If your hands get contaminated during goggle or face shield remova immediately wash your hands or use an alcohol-based hand sanitize Remove goggles or face shield from the back by lifting head band or
- If the item is reusable, place in designated receptacle fo reprocessing. Otherwise, discard in a waste container

#### 3. GOWN

- If your hands get contaminated during gown removal, immediate wash your hands or use an alcohol-based hand sanitizer
- Unfasten gown ties, taking care that sleeves don't contact your bod when reaching for ties
- Pull gown away from neck and shoulders, touching inside of gown only
- Turn gown inside out
- Fold or roll into a bundle and discard in a waste containe

#### 4. MASK OR RESPIRATOR

- Front of mask/respirator is contaminated DO NOT TOUCH!
- If your hands get contaminated during mask/respirator removamediately wash your hands or use an alcohol-based hand sanitize
- Grasp bottom ties or elastics of the mask/respirator, then the ones at the top, and remove without touching the front
- Discard in a waste container
- 5. WASH HANDS OR USE AN ALCOHOL-BASED HAND SANITIZER **IMMEDIATELY AFTER REMOVING** ALL PPE



PERFORM HAND HYGIENE BETWEEN STEPS IF HANDS BECOME CONTAMINATED AND IMMEDIATELY AFTER **REMOVING ALL PPE** 



#### HOW TO SAFELY REMOVE PERSONAL PROTECTIVE EQUIPMENT (PPE)

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#### I. GOWN AND GLOVES

- immediately wash your hands or use an alcohol-based hand
- Grasp the gown in the front and pull away from your body so
- While removing the gown, fold or roll the gown inside-out into
- As you are removing the gown, peel off your gloves at the same time, only touching the inside of the gloves and gown with your bare hands. Place the gown and gloves into a waste





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PERFORM HAND HYGIENE BETWEEN STEPS IF HANDS BECOME CONTAMINATED AND IMMEDIATELY AFTER REMOVING ALL PPE





# **Injection Safety**

- Preparation
- Technique
- Medication containers
- Expiration
- Storage
- Disinfection



Insulin pens that contain more than one dose of insulin are only meant for one person.

Insulin pens should never be used for more than one person.

They are only approved for use on individual patients, even when the needle is changed or when there is leftover medicine. No exceptions.

ONE INSULIN PEN, ONLY ONE PERSON

The One & Only Campaign is a public health effort to eliminate unsafe medical injections. To learn more about safe injection practices, please visit www.cdc.gov/injectionsafety/1anonly.html.

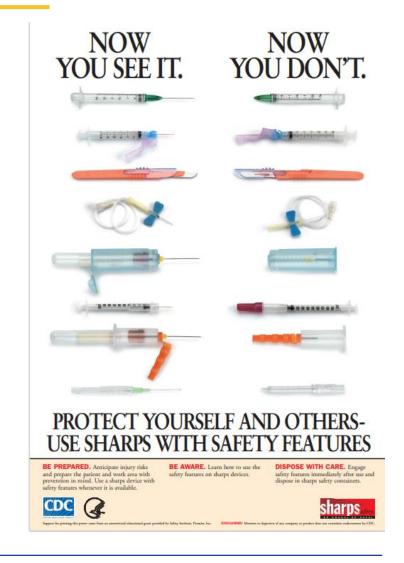


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# **Sharps Disposal**

- Biohazard label
- Closeable
- Puncture-resistant
- Leak-proof
- Secured
- Emptied when 2/3 full
- Proper disposal of full containers





# **Environmental Rounding**

A clean physical environment is imperative to keeping residents safe as well as staff, visitors and vendors.

Everyone has a role in ensuring this happens.

One top priority is education to all employees on three "Rs":

- Right cleaner/disinfectant
- Right method
- Right amount of contact time/dwell time



# **Environmental Rounding**

Routine rounding is important for several reasons:

- Ensures proper cleaning techniques are being utilized.
- Allows physical observation of staff and ability to provide real-time feedback.
- Enables evaluation of needs in all departments, such as laundry services, physical therapy and food services.
- Provides opportunity to monitor staff adherence to policies and procedures.

Unit:  Room Number: Initials of ES staff (optional):  Evaluate the following priority sites for each patient room:  High-touch Room Surfaces	Date:	1		
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Bed rails / controls	Evaluate the following priority site	s for each patien	t room:	
Tray table   VP pole (grab area)   Call box / Pour Call box /	High-touch Room Surfaces <sup>3</sup>	Cleaned	Not Cleaned	Not Present in Room
IV pole (grab area) Call box / button Telephone Bedside table handle Chair Room sink Room light switch Room light switch Bathroom langer door knob / plate Bathroom langer door knob / plate Bathroom handrails by toilet Bathroom handrails by toilet Bathroom handrails by toilet Bathroom handrails by toilet Bathroom bandrails by toilet Bathroom bandrails by toilet Bathroom bandrails by toilet Bathroom bandrails by toilet Bathroom light switch 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 Cleaned Not Cleaned Not Present in Room W pump control Multi-module monitor controls Multi-module monitor touch screen Multi-module monitor cables Wentilator control panel  Mark the monitoring method used:  Direct observation Fluorescent gel Swab cultures ATP system Agar slide cultures  Selection of detergents and disinfectants should be according to institutional policies and procedures Hospitals may choose to include identifiers of individual environmental services staff for feedback purposes. Sites most frequently contaminated and touched by patients and/or healthcare workers	Bed rails / controls			
Call box / button  Felephone  Bedside table handle  Chair  Room sink  Room light switch  Room light switch  Room inner door knob / plate  Bathroom inner door knob / plate  Bathroom inner door knob / plate  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 / Cleaned Not Cleaned Not Present in Room  Wulti-module monitor controls  Multi-module monitor touch screen  Multi-module monitor touch screen  Multi-module monitor cables  Ventilator control panel  Mark the monitoring method used:  Direct observation Fluorescent gel  Swab cultures ATP system Agar slide cultures  Selection of detergents and disinfectants should be according to institutional policies and procedures  Plospitals may choose to include identifiers of individual environmental services staff for feedback purposes.  Sites most frequently contaminated and touched by patients and/or healthcare workers	Tray table			
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National Center for Emerging and Zoonotic Infectious Diseases		touched by patient	s and/or healthcare v	vorkers



# **Environmental Rounding (cont.)**

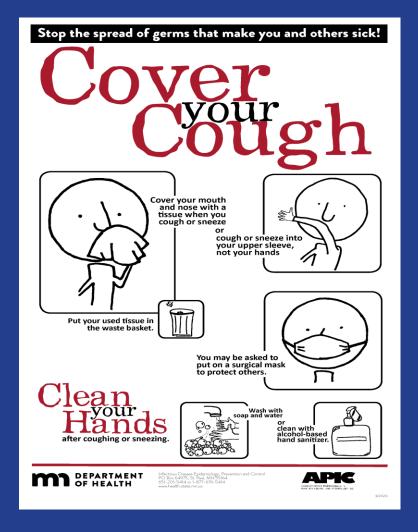
Important areas to watch in routine rounding:

- Ensure process in place for cleaning shared equipment and how to identify clean/dirty equipment
- Ensure proper cleaners/disinfectants are available for use
- How often top and drawers of medicine carts are cleaned
- How and when is physical therapy equipment cleaned; ensure access to PPE
- Fan use in laundry services and what direction they are pointed toward; should be clean to dirty; NO FOOD or DRINKS should be present; PPE should be readily available



# Respiratory Hygiene and Cough Etiquette

- What is it? Infection prevention tools to decrease the spread of respiratory germs/infections.
- What are the tools?
  - Signage
  - o PPE
  - Hand sanitizer
  - Tissue
  - Education





# Respiratory Hygiene and Cough Etiquette Tool Recommendations

- **Signage:** Display cough etiquette signage at all entrances, breakrooms, bathrooms, hallways, elevators and common areas.
- **PPE:** Provide proper PPE, as needed, to residents, staff and families. Masks should be readily available at entrances to facility. Develop procedure to stock and replenish PPE on regular basis.
- Hand sanitizer: Promote hand sanitization by providing hand sanitizer
  in direct sight lines. Recommend having it available at all entrances to
  facility, by elevators, common areas, outside patient rooms, close to
  soiled utility rooms, nurses' stations, breakrooms, etc.



# Respiratory Hygiene and Cough Etiquette Tool Recommendations (cont.)

- **Tissues:** Continue to evaluate all areas of facility, such as libraries, beauty shops and communal laundry spaces to ensure hand sanitizer and tissues are readily available.
- **Education:** Continue providing reminders to residents, families and all visitors on respiratory hygiene and cough etiquette.
  - Collaborate with activities department to provide education.
  - Sustain communication with families via email, newsletters and signage within facility to promote respiratory hygiene.



# Monitoring Adherence to Infection Control Practices

## **Auditing**

- Rounding
- Documentation
- Frequency
- Enlisting auditors

## What to do with the data

- Real-time feedback
- Communicate results
- Develop plans to improve gaps



# Questions?

## CONTACT

Jennifer Brinegar or Sara Reese

jbrinegar@health.in.gov

sreese1@isdh.in.go۱

