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			KDHE-KHC Infection Prevention LAN for Outpatient Settings
KDHE-KHC Learning Action Network			
February 25	IP Program Development, Leadership, Policies and Procedures		
March 11	Surveillance and Reporting		
March 25	Occupational Health		
April 8	Personal Protective Equipment		
April 22	Hand Hygiene		
May 6	Environmental Cleaning & Disinfection		
May 20	Device Reprocessing		
June 3	Antimicrobial Stewardship		
June 17	Learning/Sharing Forum		
<small>Recordings and handouts are available online. Visit www.khconline.org/LAN</small>			
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  <h2>LAN Faculty and Planning Committee</h2>		
<p>Kansas Department of Health and Environment Healthcare-Associated Infection/Antimicrobial Stewardship Program</p> <p>Bryna Stacey, MPH, BSN, RN, CIC Director</p> <p>Kellie Wark, MD, MPH Assistant Professor Division of Infectious Diseases, Department of Medicine, University of Kansas</p> <p>Robert Geist, MPH, CIC, FAPIC Advanced Epidemiologist</p> <p>Stephanie Lindemann, MPH Antimicrobial Resistance Epidemiologist</p> <p>Lisa Kenworthy, RN Infection Preventionist</p> <p>Linda Van Hoecke, RN Infection Preventionist</p> <p>Cassandra (Casey) Cristini Infection Preventionist</p>	<p>Ascension Via Christi Hospital Pittsburg, Inc Jamie Cravens, RN, CIC* Infection Control Coordinator</p> <p>Kansas Healthcare Collaborative Michele Clark, MBA, CPHQ, CPPS, ABC Senior Director of Health Initiatives & Special Projects</p> <p>NMH Health Ester Knobloch, MLS(ASCP)^{CM} * Quality Manager, Infection Preventionist</p> <p>Citizens Medical Center Monique Cheatum, RN* Infection Prevention, Quality, Policy, Education</p> <p>Americare Senior Living, Skilled Nursing Division Cynthia Pendleton, RN, BSN, LNHA* Regional Nurse Consultant</p> <p>Ellinwood Hospital & Clinic Cassie Stevenson, RN* I.P. Coordinator, Nurse Supervisor, Employee Health</p>	<p>Swope Health Julie M. Richards, MSN, RN, CIC Director of Infection Prevention and Control</p> <p>The University of Kansas Health System Sylvera (Sylvia) Ford, MS, RN, CIC Health System Infection Prevention Specialist</p> <p>Jill Hardy, BSN, RN* Infection Prevention and Control Nurse</p> <p>Tiffany Horsley, BSN, RN, CIC Infection Control Nurse II</p> <p>Maggie Reavis, MPH, BSN, CIC, CPHQ* Infection Control Nurse II</p> <p>Lance Williamson, MSN, RN, CIC* Infection Prevention and Control Nurse Supervisor The University of Kansas Health System</p> <p><i>* KDHE Regional Infection Preventionists</i></p>



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  <h2>Feedback Summary from Last Session</h2>	
<h3>Session #3: Occupational Health</h3>	
<p>The most useful thing presented included:</p> <ul style="list-style-type: none"> Information for onboarding HCWs and educational requirements OSHA requirements Sharps safety Data and tools to address vaccine hesitancy “Use” and “Lose” talking points for COVID vaccine Everything was useful! 	<p>Next steps identified by participants:</p> <ul style="list-style-type: none"> Review and improve onboarding training for new hires. Share information with management, others. Determine how to get H.R. and other departments onboard with necessity to gather documentation for the Occupational Health file. Set up an Occupational Health program. Update our Employee Health Work Restriction and exposure policies and procedures. Review CDC sharps prevention guide. Develop a “packet” for needlestick exposure for quick access and care. Review resource links/information shared.


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Session #4: Personal Protective Equipment

Presenters





Lance Williamson, MSN, RN, CIC
Infection Control Supervisor
The University of Kansas Health System
williamson4@kumc.edu



Ester Knobloch, MLS(ASCP)^{CM}
Quality Manager & Infection Preventionist
Newman Regional Health
eknobloch@newmanrh.org

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Session #4: Personal Protective Equipment

Session Objectives

- Explain key concepts of standard precautions
- Identify types of PPE and how they are used
- Define transmission-based precautions and how they differ from standard precautions
- Describe approaches to PPE training and competency
- Explain the importance of PPE audits

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Session #4: Personal Protective Equipment



Polling Question

What are the key components of Standard Precautions?

- A. Hand Hygiene
- B. Personal Protective Equipment
- C. Respiratory Etiquette
- D. Cleaning and Disinfection
- E. Safe Injection Practices
- F. All of the above

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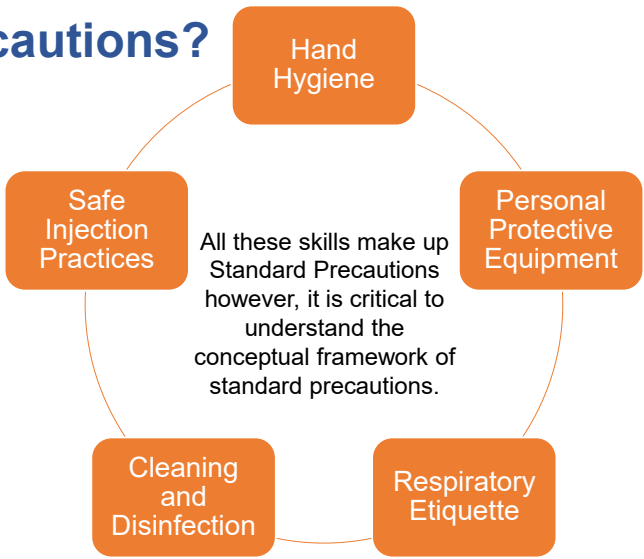
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Session #4: Personal Protective Equipment

What are Standard Precautions?



- These are basic infection prevention practices that are used for all patient care.
- These make up the foundation of infection prevention in all healthcare settings by halting the transmission of infection and limiting the risk of exposure to HCW.



All these skills make up Standard Precautions however, it is critical to understand the conceptual framework of standard precautions.

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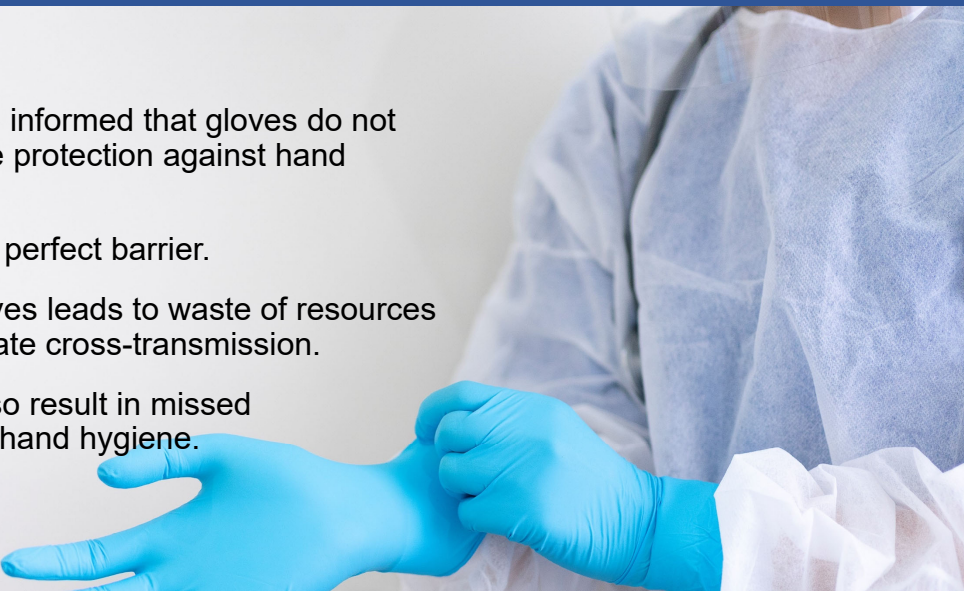
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Session #4: Personal Protective Equipment



Glove Use

- HCWs should be informed that gloves do not provide complete protection against hand contamination.
- Gloves are not a perfect barrier.
- Over- use of gloves leads to waste of resources and can perpetuate cross-transmission.
- Over-use can also result in missed opportunities for hand hygiene.



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Indications for Gloves

Exam Gloves

- Clinical situations where contact with blood, body fluids, mucous membranes, and non-intact skin are anticipated
- Direct exposure – (IV insertion, drawing blood, suctioning open trach etc.)
- Indirect exposure – Emptying emesis basin, handling soiled linen, cleaning a blood or body fluid spill etc.)

Clean Hands



- Direct patient care (examining intact skin, SC and IM injections, bathing and dressing, vascular line manipulation etc.)
- Indirect patient care – Charting, collecting dietary trays, handling non-invasive ventilation equipment etc.)

Sterile Gloves

- Surgical Procedures
- Invasive procedures (central line placement etc.)

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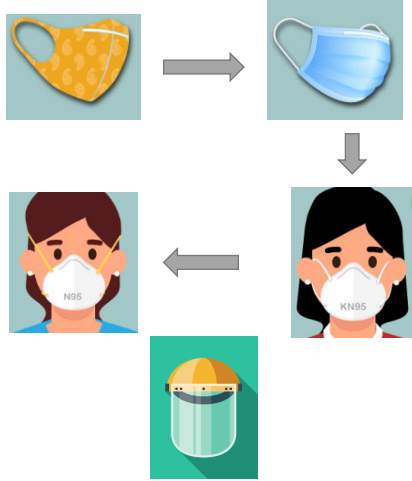
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All about masks

- Surgical masks vs. Respirators
- Source control vs. PPE
- Mask fit and filtration
- Challenges during the pandemic
- Mask reprocessing
- The new standard precautions



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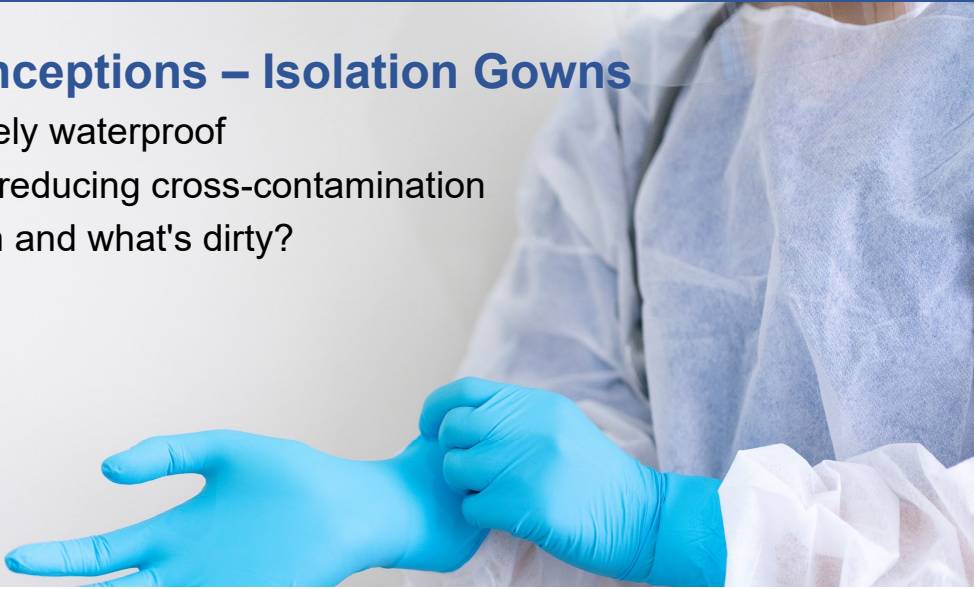
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PPE Misconceptions – Isolation Gowns

- Not completely waterproof
- Think about reducing cross-contamination
- What's clean and what's dirty?



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KDHE Standard Precautions Infographic Tool

[https://www.kdheks.gov/epi/download/Standard Precautions 11x17 Poster.pdf](https://www.kdheks.gov/epi/download/Standard%20Precautions%2011x17%20Poster.pdf)

What are Standard Precautions?

Common sense practices to prevent exposure to and spread of germs.

Standard Precautions are used for **all** patient care. Every encounter.

More than just a set of skills; a concept of safety that applies to every patient every time.

Why are they important?

- Implementation of these precautions make up the primary strategy for prevention of health care-associated infections.
- These precautions are essential in:
 - Halting the transmission of hospital acquired infections
 - Limiting the risk of exposures to health care workers.

What do they involve?

Standard precautions include basic infection control skills to be applied during every patient encounter.

Hand Hygiene, Personal Protective Equipment, Respiratory Etiquette, Cleaning and Disinfection, Safe Injection Practices

All of these skills make up Standard Precautions however, it is critical to understand the **conceptual framework** of standard precautions.

What are the barriers?

Nurses attribute many barriers to consistently using standard precautions including:

- Availability of equipment
- Negative impact on nursing skills
- Patient discomfort
- Time constraints
- Competing priorities
- Physician influence

Evolving our perception of Standard Precautions.

These precautions transcend mere procedure and must be ingrained in a nurse's practice throughout every patient encounter.

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Germ Transmission

Break the Chain of Infection!

<https://infectionpreventionandyou.org/wp-content/uploads/2016/09/Break-the-Chain-of-Infection.pdf>

BREAK THE CHAIN!

- Immunizations
- Treatment of underlying disease
- Health insurance
- Patient education

BREAK THE CHAIN!

- Diagnosis and treatment
- Antimicrobial stewardship

BREAK THE CHAIN!

- Cleaning, disinfection, sterilization
- Infection prevention policies
- Pest control

BREAK THE CHAIN!

- Hand hygiene
- Personal protective equipment
- Food safety
- Cleaning, disinfection, sterilization
- Isolation

BREAK THE CHAIN!

- Hand hygiene
- Personal protective equipment
- Control of aerosols and splatter
- Respiratory etiquette
- Waste disposal

BREAK THE CHAIN!

- Hand hygiene
- Personal protective equipment
- First aid
- Removal of catheters and tubes

Source: APIC

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Transmission-based Precautions

- Always in addition to Standard Precautions
- Taken upon disease suspicion
- Post signage to clearly communicate to staff and visitors



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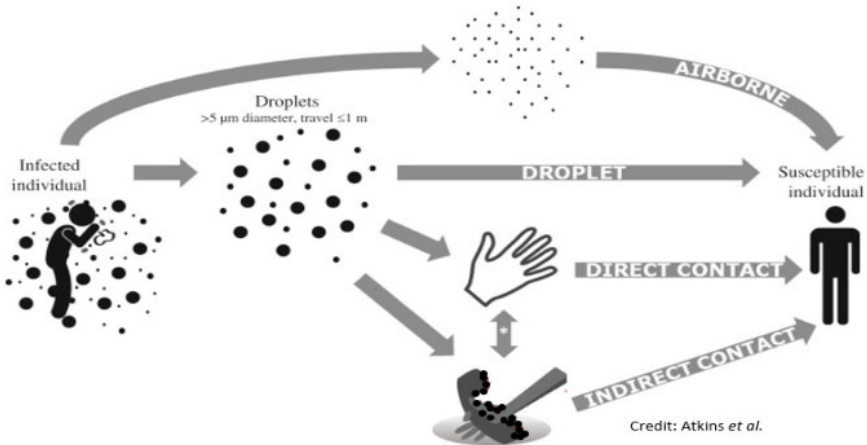
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Transmission-based Precautions



- Contact
- Droplet
- Airborne



Credit: Atkins et al.

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Contact Precautions

- Placement in single patient space
- **Wear gown & gloves**
- Limit transport and movement of patient
- Use disposable or dedicated patient-care equipment
- Prioritize cleaning and disinfection of the room





STOP CONTACT PRECAUTIONS STOP
EVERYONE MUST:
Clean their hands, including before entering and when leaving the room.
PROVIDERS AND STAFF MUST ALSO:
Put on gloves before room entry. Discard gloves before room exit.
Put on gown before room entry. Discard gown before room exit.
Do not wear the same gown and gloves for the care of more than one person.
Use dedicated or disposable equipment. Clean and disinfect reusable equipment before use on another person.

Centers for Disease Control and Prevention. Transmission-Based Precautions. Contact Precautions Example Sign. Jan. 2016.
<https://www.cdc.gov/infectioncontrol/pdf/contact-precautions-sign-P.pdf>

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Droplet Precautions

- Mask the patient
- Placement in single patient space
- **Wear mask and eye protection**
- Limit transport and movement of patient





STOP DROPLET PRECAUTIONS STOP
EVERYONE MUST:
Clean their hands, including before entering and when leaving the room.
Make sure their eyes, nose and mouth are fully covered before room entry.
Remove face protection before room exit.

Centers for Disease Control and Prevention. Transmission-Based Precautions. Droplet Precautions Example Sign. Jan. 2016.
<https://www.cdc.gov/infectioncontrol/pdf/droplet-precautions-sign-P.pdf>

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Airborne Precautions


- Mask the patient
- Placement in airborne infection isolation room (AIIR)
 - If not AIIR not available, place in private room with the door closed
- Restrict entry by susceptible staff
- Wear fit-tested N95 or PAPR**
- Limit transport and movement of patient
- Immunize susceptible exposures




AIRBORNE PRECAUTIONS

EVERYONE MUST:






Clean their hands, including before entering and when leaving the room.




Put on a fit-tested N-95 or higher level respirator before room entry.

Remove respirator after exiting the room and closing the door.




Door to room must remain closed.




Centers for Disease Control and Prevention. Transmission-Based Precautions. Airborne Precautions Example Sign. Jan. 2016.
<https://www.cdc.gov/infectioncontrol/pdf/airborne-precautions-sign-P.pdf>

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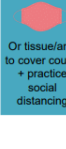
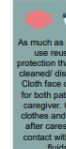





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COVID-19 PPE

I may have close contact* with patients infected with COVID-19 or related symptoms and want to know what PPE I need to wear. I am a...

Healthcare Worker	Healthcare EVS Staff	Member of the Public	Caregiver
<p>Providing direct care for a patient</p> <p>During aerosol-generating procedures</p>	<p>Cleaning room with unmasked patient present</p> <p>Immediate terminal cleaning of COVID-19 rooms</p>	<p>Stay home except for necessities</p> <p>In a public area or waiting room</p>	<p>In room with COVID-19 patient, no direct care</p> <p>Anyone providing any direct medical care</p>
			

<https://www.coronavirus.kdheks.gov/DocumentCenter/View/1174/PPE-Cheat-Sheet-PDF---10-29-20>



Healthcare-Associated Infections & Antimicrobial Resistance Program

Legend

■ Cloth Face Mask
 ■ Face Mask
 ■ N95 or higher
 ■ Eye Protection/Shield
 ■ Gown
 ■ Gloves

*See Page 2 for Definition of a Close Contact

Updated 10.29.2020

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Guideline for Isolation Precautions

<https://www.cdc.gov/infection-control/guidelines/isolation/appendix/type-duration-precautions.html>

Type and Duration of Precautions Recommended for Selected Infections and Conditions¹

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

Appendix A Updates [September 2018]

Changes: Updates and clarifications made to the table in Appendix A: Type and Duration of Precautions Recommended for Selected Infections and Conditions.

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

A

Infection/Condition	Type of Precaution	Duration of Precaution	Precautions/Comments
Abscess Draining, major	Contact + Standard	Duration of illness	Until drainage stops or can be contained by dressing.
Abscess Draining, minor or limited	Standard		If dressing covers and contains drainage.

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PPE Training and Competency

- Recognition
- Selection
- Donning
- Doffing
- Limitations
- Proper care/ maintenance
- Disposal

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PPE Training and Competency

**Project Firstline
PPE Training Videos**

**Use PPE correctly for
COVID-19 (LTC staff)**
<https://www.youtube.com/watch?v=YYTATw9yav4>



**PPE Tips for Outpatient
Hemodialysis Facilities
during COVID-19**
<https://www.youtube.com/watch?v=a8wtli83X8I>

<https://www.cdc.gov/infectioncontrol/projectfirstline/training/index.html>



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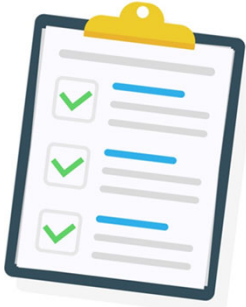
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Auditing

- Monitor and document PPE use
- Provide feedback to personnel



Resources:


CDC Quick Observation Tools (QUOTs) for Infection Prevention
<https://www.cdc.gov/infectioncontrol/tools/quots.html>


PPE Burn Rate Calculator
<https://www.cdc.gov/coronavirus/2019-ncov/hcp/ppe-strategy/burn-calculator.html>

Spreadsheet-based model that will help health care facilities plan and optimize the use of PPE for response to COVID-19. Version 2 now available, mobile app version, too.

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Auditing



Standard Precautions: Observation of Personal Protective Equipment Provision

Instructions: Observe patient care areas or areas outside of patient rooms. For each category, record the observation. In the column on the right, sum (across) the total number of "Yes" and the total number of observations ("Yes" + "No"). Sum all categories (down) for overall performance.


Standard Precautions: Observation Categories		Room 1	Room 2	Room 3	Room 4	Room 5	Summary of Observations	
		Yes	No	Yes	No	Yes	No	Yes
1	Are gloves readily available outside each patient room or any point of care?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
2	Are cover gowns readily available near each patient room or point of care?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
3	Is eye protection (face shields or goggles) readily available near each patient room or point of care?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		


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PPE QUOT: <https://www.cdc.gov/infectioncontrol/pdf/QUOTS/Standard-Precautions-PPE-Provision-P.pdf>

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Session #4 Quiz

Personal protective equipment training and competency programs should include everything except?

- ☐ Correct sequence for doffing PPE
- ☐ Selection of required articles of PPE
- ☐ Limitations of PPE
- ☐ Alterations to PPE

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References

- Centers for Disease Control and Prevention (CDC). (2016, Jan. 5). Infection Control Basics.
- Pyrek, K. M. (2017). Standard precautions: Studies indicate suboptimal adherence. Infection Control Today. Retrieved from <https://www.infectioncontrolday.com/standard-precautions/standard-precautions-studies-indicate-suboptimal-adherence>
- The World Health Organization (WHO). Glove use Information Leaflet. (Aug. 2009).

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Session #4: Personal Protective Equipment



Q&A



Please type your questions or comments in the chat.

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Next steps



- Download and complete CDC Quick Observation Tool (QUOT) for Personal Protective Equipment (PPE) Supply Provision
<https://www.cdc.gov/infectioncontrol/pdf/QUOTS/Standard-Precautions-PPE-Provision-P.pdf>
- Begin monitoring PPE practices (eg, donning and doffing)
- Begin tracking adherence to PPE practices and share information with your staff

Before next session:

- View the [CDC Project Frontline Hand Hygiene Course](#) (5-10 min.)

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Upcoming Sessions

April 22	Hand Hygiene
May 6	Environmental Cleaning & Disinfection
May 20	Device Reprocessing
June 3	Antimicrobial Stewardship
June 17	Learning/Sharing Forum

Recordings and handouts of past sessions can be located here:
www.khconline.org/LAN

**NEW LIST-SERV
Now open!**



- Connect with your faculty and peers
- LAN communications will come through listserv

Address emails to:
KANSAS-OUT-IP@LIST.KHCONLINE.ORG
(must be all caps)

All LAN enrollees are included.
See listserv information sheet.

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Questions?

Contact:

KDHE
Healthcare-Associated Infections and Antimicrobial Resistance (HAI/AR) Program
Phone: (785) 296-4167
Email: kdhe.HAIARProgram@ks.gov

Kansas Healthcare Collaborative
Michele Clark
Senior Director of Quality Initiatives & Special Projects
(785) 231-1321 or mclark@khconline.org

Kansas Department of Health & Environment
Bryna Stacey
HAI/AR Program Director
Bryna.Stacey@ks.gov

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