



1

Kansas Department of Health and Environment Division of Public Health

KHC Kansas Healthcare COLLABORATIVE

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

Recordings and handouts are available online. Visit www.khconline.org/LAN

To protect and improve the health and environment of all Kansans

2

LAN Faculty and Planning Committee

<p>Kansas Department of Health and Environment Healthcare-Associated Infection/Antimicrobial Stewardship Program 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 style="text-align: right; font-size: small;">* KDHE Regional Infection Preventionists</p>
---	---	---

To protect and improve the health and environment of all Kansans

3

Feedback Summary from Last Session

Session #4: Personal Protective Equipment (PPE)

<p>The most useful thing presented included:</p> <ul style="list-style-type: none"> Clarification on use of appropriate PPE Resources shared, links to CDC precaution infographic Understanding difference between K95 and KN95 masks. Emphasis on the Standard Precautions, explanation of glove use and hand hygiene Opportunities to support PPE compliance. Just good overall reminders 	<p>Next steps identified by participants:</p> <ul style="list-style-type: none"> Share the information with the buildings in our company. Education/reminders with staff of PPE rules Include standard precautions slide in new hire training. Consider using the Standard Precautions sign Review and update auditing practices, competency checks Continue review of isolation precautions within organization Try tip about using the Free and Clear detergent to illustrate proper PPE donning and doffing Compare observation tools with current processes Use the CDC PPE Observation tool for frontline employees Implement all of the resources in the links! So excited.
--	--

To protect and improve the health and environment of all Kansans

4

  **Session #5: Hand Hygiene**

Presenters



Casey Cristini, B.S, MSc.
Candidate
Infection Preventionist
KDHE
Cassandra.cristini@ks.gov





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



Jill Hardy, RN, BSN
Infection Preventionist
The University of Kansas Health System
jhardy@kumc.edu

To protect and improve the health and environment of all Kansans

5



  **Session #5: Hand Hygiene**

Session Objectives

- Explain hand hygiene and why it's important
- Describe and identify common bacteria and transmission
- Demonstrate proper HH techniques
- Discuss auditing, signage, training, and compliance

To protect and improve the health and environment of all Kansans

6

  **Session #5: Hand Hygiene**

- ~10 million bacteria found on human skin from fingertips to the elbow
 - *Staphylococcus*
 - *Enterococcus*
 - *Pseudomonas*
 - *Klebsiella*
 - *Acinetobacter*
 - *Enterobacter*
- 80% of all microorganisms are spread through touch
- 2/3 of all HAIs are linked to healthcare worker's hands

APIC Guide to Hand Hygiene Programs for Infection Prevention
A.E. Ailleo, et al. A comparison of the bacteria found on the hands. J Hosp Infect 2003 Aug; 54(4): 310-315.

To protect and improve the health and environment of all Kansans



7

  **Session #5: Hand Hygiene**



To protect and improve the health and environment of all Kansans

8

  **Session #5: Hand Hygiene**

Polling Question #1

Healthcare grade hand washing products contain
_____ to _____ levels of antimicrobial agents?

- A. low to medium
- B. medium to high
- C. low to high

To protect and improve the health and environment of all Kansans

9

  **Session #5: Hand Hygiene**

Spread good vibes not enterococci.



Cook, B., & Bancroft, T. (Directors). (1998). Mulan [Motion picture]. United States: Walt Disney.

To protect and improve the health and environment of all Kansans

10




Session #5: Hand Hygiene

Spread good vibes not enterococci cont.

Cleaning your hands with soap and water or ABHR is a primary measure to reduce harmful pathogens on the hands and transmission to others.



Soap & water

- Plain soap
- Cleaning not disinfecting



Antibacterial soap & water

- Antiseptic agents/detergents
- Disinfecting



ABHR

- Alcohol based
- Disinfecting



Surgical sterilization

- Antiseptic
- Sterilization

www.cdc.gov/oralhealth/infectioncontrol/faqs/hand-hygiene.html

Your hands carry germs you can't see





Wash your hands

www.cdc.gov/handwashing 

To protect and improve the health and environment of all Kansans

11

Session #5: Hand Hygiene

Spores before S'mores

Reduce pathogens

- Norovirus, Salmonella, E.coli. etc

Reduce transmission


- HCP-PT-Community

Handwashing education

- Reduction in infection after education (diarrheal 58%, respiratory 16-21%) (CDC,2020)

Antibiotic resistance

- Reduction in illness, decreased antibiotic prescribing and likelihood for resistance (CDC, 2020)




GERMS ARE EVERYWHERE, INSIDIOUS AND BREEDING.

<https://www.cdc.gov/handwashing/why-handwashing.html>

To protect and improve the health and environment of all Kansans

12

www.khconline.org/LAN

Session #5: Hand Hygiene


Don't lick, germs stick

1. **Before** touching a patient.
2. **Before** clean/aseptic procedure.
3. **After** body fluid exposure risk.
4. **After** touching a patient.
5. **After** touching patient surroundings.

HOW TO HANDRUB?

RUB HANDS FOR HAND HYGIENE! WASH HANDS WHEN VISIBLY SOILED


⌚ Duration of the entire procedure: 20-30 seconds



How to Handwash?

WASH HANDS WHEN VISIBLY SOILED! OTHERWISE, USE HANDRUB

⌚ Duration of the entire procedure: 40-60 seconds



https://www.who.int/gpsc/5may/Hand_Hygiene_Why_How_and_When_Brochure.pdf

To protect and improve the health and environment of all Kansans

13






World Health Organization





World Hand Hygiene Day 2021

Seconds save lives – clean your hands!

<https://www.who.int/campaigns/world-hand-hygiene-day/2021/how-to-get-involved>


To protect and improve the health and environment of all Kansans

14

  **Session #5: Hand Hygiene**



Creating a Hand Hygiene Program

1. Commit to a hand hygiene program
2. Engage stakeholders
3. Train staff on the 5 moments of hand hygiene and how to perform hand hygiene
4. Train hand hygiene auditors how to record monthly observations
5. Share and learn from the monthly data



To protect and improve the health and environment of all Kansans


15

  **Session #5: Hand Hygiene**

Potential staff to perform hand hygiene audits
LPN/RN, medication aid, CAN, secretary, dental hygienist

Teach auditors how to record hand hygiene opportunities until you reach your desired number of observations

Ex. 60 total observations per month



[This Photo](#) by Unknown Author is licensed under [CC BY-NC-ND](#)

To protect and improve the health and environment of all Kansans

16

Session #5: Hand Hygiene

Sample Hand Hygiene Auditing Form

Disciplines Observed

Medical Staff:
Yes: _____
No: _____

Nursing Staff:
Yes: _____
No: _____

***Ancillary Staff:**
Yes: _____
No: _____

***Support Staff:**
Yes: _____
No: _____

Disciplines Observed

Medical Staff	Nursing Staff	Ancillary Staff	Support Staff
---------------	---------------	-----------------	---------------

Hand Hygiene Monitoring Tool

Facility: _____

HCW Type Key:
 1 = Physician
 2 = Physician Assistant/Nurse Practitioner
 3 = Registered nurse
 4 = Licensed practical nurse
 5 = Nurse aide
 6 = Physical, occupational, speech therapy
 7 = Dietitian
 8 = Dietary staff
 9 = Environmental services/maintenance
 10 = Social worker
 11 = Administrator/manager

Observation Key:
 HR = alcohol hand rub
 HW = hand washing
 Y = Yes
 N = No
 NA = not applicable

#	Date	Shift	HCW Type	Hand Hygiene BEFORE Touching Resident				Hand Hygiene AFTER touching resident, environment, or equip.				On Contact Precautions		Glove Worn		Gown Worn			
	(MM/DD/YY)	Day, Eve, Night	See Key	YES HR	YES HW	NO	NA	YES HR	YES HW	NO	N/A	Y	N	Y	N	NA	Y	NA	
1																			
Reason for Entry:																			
2																			
Reason for Entry:																			
3																			
Reason for Entry:																			
4																			
Reason for Entry:																			
5																			
Reason for Entry:																			

To protect and improve the health and environment of all Kansans

17

Session #5: Hand Hygiene

The Power of Hand Hygiene Data

- Adherence
- Opportunities for improvement
- Demonstrates results of improvement efforts

Example of ways to present your data...

Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21
100%	100%	99%	100%	100%	94%	86%	100%

To protect and improve the health and environment of all Kansans

18

www.khconline.org/LAN






Session #5: Hand Hygiene



<https://www.cdc.gov/handhygiene/campaign/promotional.html>

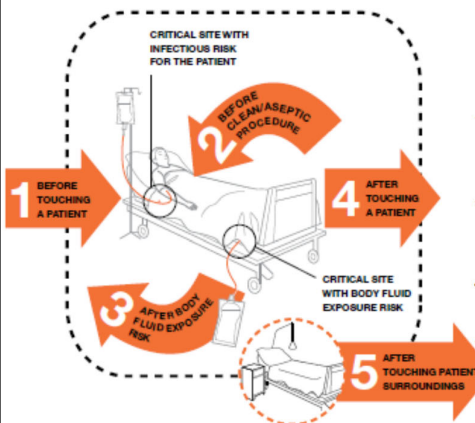
To protect and improve the health and environment of all Kansans

19

Hand Hygiene Staff Training

WHO's 5 Moments of Hand Hygiene



1. Before touching a patient
2. Before providing a clean/aseptic procedure
3. After direct contact with body fluid
4. After touching a patient
5. After touching surfaces around a patient

HAND RUB (foam and gel)



- Apply to palm of one hand (the amount used depends on specific hand rub product).
- Rub hands together, covering all surfaces, focusing in particular on the fingertips and fingernails, until dry. Use enough rub to require at least 15 seconds to dry.

HANDWASHING

- Wet hands with water.
- Apply soap.
- Rub hands together for at least 15 seconds, covering all surfaces, focusing on fingertips and fingernails.
- Rinse under running water and dry with disposable towel.
- Use the towel to turn off the faucet.

To protect and improve the health and environment of all Kansans

20


  **Session #5: Hand Hygiene**

Be a role model for Hand Hygiene

Research has shown that the actions of clinicians influence the behavior of others.

Show your colleagues that hand hygiene is an important part of quality care.



Your patients watch you, too!



[This Photo](#) by Unknown Author is licensed under [CC BY-ND](#)

To protect and improve the health and environment of all Kansans

21

  **Session #5: Hand Hygiene**



Polling Question #2

The World Health Organization's 5 Moments of Hand Hygiene includes all of the following EXCEPT?

- Before and after touching a patient
- Before a clean or sterile procedure
- Before the start of your work shift
- After body fluid exposure

To protect and improve the health and environment of all Kansans

22

  **Session #5: Hand Hygiene**

References

- Hand Hygiene: Why, How & When
[Hand Hygiene Why How and When Brochure.pdf \(who.int\)](#)
- Cook, B., & Bancroft, T. (Directors). (1998). Mulan [Motion picture]. United States: Walt Disney.
- Hand hygiene. (2016, March 01). Retrieved from
<http://www.cdc.gov/oralhealth/infectioncontrol/faqs/hand-hygiene.html>
- Hand Hygiene: Why, How & When? (2009, August). Retrieved from
https://www.who.int/gpsc/5may/Hand_Hygiene_Why_How_and_When_Brochure.pdf
- Show me the science – Why wash your hands? (2020, September 10). Retrieved from
<https://www.cdc.gov/handwashing/why-handwashing.html>
- Social media graphics. (2021, March 25). Retrieved from
<https://www.cdc.gov/handwashing/buttons.html>

To protect and improve the health and environment of all Kansans

23

  **Session #5: Hand Hygiene**

Resources

World Hand Hygiene Day
<https://www.who.int/campaigns/world-hand-hygiene-day/2021/how-to-get-involved>



Hand Hygiene guidance and education for health care
<https://www.cdc.gov/handhygiene/providers/index.html>

Hand Hygiene signage for health care facilities
<https://www.cdc.gov/handhygiene/campaign/promotional.html>

CDC Posters, Promotional Material
https://www.cdc.gov/handhygiene/campaign/promotional.html#anchor_1555100516

To protect and improve the health and environment of all Kansans

24

  **Session #5: Hand Hygiene**



Session #5 Quiz

A patient care assistant notices that her hands are visibly soiled after caring for a patient. What method of hand hygiene method should she use?

- Use alcohol-based hand sanitizer
- Use soap and water
- Use triclosan-containing soap and water
- Not indicated


To protect and improve the health and environment of all Kansans

25

  **Hand Hygiene**

Barriers or Excuses Exercise

Ask 10-20 people this question:
“Why do you think people don’t wash their hands when they should?”



“Why do you think people don’t wash their hands when they should?”



Facility Name: _____


Reason	Barrier	Excuse

This is a Session #5 homework assignment for the KDHE-KHC Infection Prevention Learning Action Network. Please return a copy to KHC by May 3, 2021. Email to: info@khconline.org or fax to (785) 861-7482. Attention: Michele Clark

To protect and improve the health and environment of all Kansans


26

  **Session #5: Hand Hygiene**



“Barrier” examples

- Soap dispensers are empty
- Hand sanitizer dispensers are in an inconvenient location
- Paper towel dispensers are broken





“Excuse” examples

- People are too busy.
- Hand washing is over-rated
- I wear gloves so I don’t need to wash
- Hands are too dry
- It will ruin my manicure

To protect and improve the health and environment of all Kansans

27

  **Session #5: Hand Hygiene**

Next steps

1. View the [CDC Project Frontline Hand Hygiene Course](#) (5-10 min.)
2. Complete “Barriers or Excuses Worksheet” and return copy to KHC by May 3.
3. Review the APIC Guide to Hand Hygiene Program for Infection Prevention
4. Review hand hygiene auditing tools and develop a policy to consistently measure adherence to proper hand hygiene over time.

To protect and improve the health and environment of all Kansans

28

  **Session #5: Hand Hygiene**



Q&A



Please type your questions or comments in the chat.

To protect and improve the health and environment of all Kansans

29

  **KDHE-KHC Infection Prevention LAN for Outpatient Settings**

Upcoming Sessions

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

Provide feedback for today's session here:
www.surveymonkey.com/r/KDHE-KHC-session5

**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.

To protect and improve the health and environment of all Kansans

30

  **Session #5: Hand Hygiene**

Polling Question #3



Which of the following topics would you most value for our final “wild card” session on June 17?

- Construction
- NHSN reporting
- Putting it all together – what should be in place for outpatient IP
- Annual surveillance plan, how to evaluate goals
- Quality 101: How to improve

Please type additional suggestions in the chat.

To protect and improve the health and environment of all Kansans

31

  **KDHE-KHC Infection Prevention LAN**

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

To protect and improve the health and environment of all Kansans

32