Module 5, Session 1: Hand Hygiene for All

Preparation Checklist

Materials Required for this Session:

- □ Facility Trainer Binder Module 5, Session 1
- □ Facility-specific material: Policies and procedures (P&Ps) relevant to the session, including hand hygiene training , audits, and audits results
- □ Copy of facility's most recently completed *CDC Infection Control Assessment and Response (ICAR) tool: Domain IX*
- □ *Facility Trainer Attendance Log* (provided in Session Appendix)
- □ *Facility Trainer Assessment Tracker* (provided in Session Appendix)
- Participant Notebooks with Module 5 Session 1 handouts (provided in Session Appendix):
 - Hand Hygiene Pre-Session Assessment
 - Hand Hygiene Post-Session Assessment
 - Module 5, Session 1: Participant Resources
 - Session Follow-Up Task List
- □ Hand-washing station, alcohol-based hand rub (ABHR), and gloves
- □ Flip chart/white board and markers
- □ Blank name tags/tents and markers
- Extra pens

Resources used for this session:

- CDC Dialysis Safety: Clinician Education Staff Competencies
 - http://www.cdc.gov/dialysis/clinician/index.html
- CDC Dialysis Collaborative Audit Tool: Hemodialysis hand hygiene observations
 - http://www.cdc.gov/dialysis/PDFs/collaborative/Hemodialysis-Hand-Hygiene-Observations.pdf
- WHO 5 Moments for Hand Hygiene in Hemodialysis poster
 - http://www.who.int/gpsc/5may/haemodialysis.pdf
- CDC slide set "Hand Hygiene in Healthcare Settings-core"
 - http://www.cdc.gov/HandHygiene/download/hand_hygiene_core.pdf
- CDC Dialysis Safety: Audit Tools and Checklists Protocol for Hand Hygiene and Glove Use Observations
 - http://www.cdc.gov/dialysis/prevention-tools/audit-tools.html
- WHO Hand Hygiene: Why, How, & When?
 - http://www.who.int/gpsc/5may/Hand_Hygiene_Why_How_and_When_Brochure_ .pdf
- AHRQ Safety Program for End-Stage Renal Disease Facilities-Toolkit: Clinical Care of the Hemodialysis Patient Presentation

http://www.ahrq.gov/professionals/quality-patient-safety/patient-safetyresources/resources/esrd/clinicalcare.html

Preparing for the Session:

Before the Facility Trainer begins this session, the following tasks should be completed:

- Notify participants about the session, at least two weeks prior, include the location, date, and time of the session.
- Assemble Module 5, Session 1 handouts for participants to add to their **Participant Notebook**.
- Assemble P&Ps needed for review.
- Make copies of recent ICAR Domain IX, and highlight areas with gaps in policy, to be added to the **Participant Notebook**.
- Gather demonstration equipment, including the hand-washing station, ABHR, and gloves.
- Set up the classroom with handouts and blank name tags at each participant's place.
- Have the Facility Trainer's Binder ready before beginning the session.

Tasks to be done as participants arrive:

- Ask participants to sign in using the *Facility Trainer Attendance Log*.
- Give each participant Module 5, Session 1 handouts to be inserted into their **Participant Notebook.**
- Prompt participants to complete the *Pre-Session Assessment*.

Tasks to be done after completion of the session:

- Write notes about the session on the "Notes and Homework" page. Include: which policies need to be developed or updated and any action plans that were developed and require follow-up.
- Complete the *Facility Trainer Assessment Tracker* with Pre- and Post-Session Assessment scores.
- Address areas of concerns, successes, questions, need for follow-up, staff members to check in with, etc.

Facility Trainer Brief

Learning Objectives

At the close of Module 5, Session 1 the participants will:

- Understand the facility's P&Ps related to hand hygiene, gloving, and auditing.
 - If gaps are identified, develop an action plan to update P&Ps.
- Be able to describe the CDC core interventions for infection prevention related to hand hygiene and glove use.
- Understand the facility-specific audit results and their implications.
- Be able to demonstrate proper hand washing and use of hand sanitizer.

Module 5, Session 1: Overview

Session 1 is all about hand hygiene. The staff will review Domain IX of their facility-specific ICAR assessment. The trainer will lead a discussion and educate staff on best practice including CDC core interventions. Participants will familiarize themselves with the auditing process and with the results of recent hand hygiene audits and will implement a plan to ensure timely auditing as well as improved performance based on audit results. This session will include a simulation of appropriate hand hygiene including hand washing and use of disinfecting agents. Participants will validate proficiency through return demonstration.

Module 5, Session 1 is divided into these five parts:

Part 1: Introduction (5 minutes)

Participants will take the *Pre-Session Assessment* to gauge their current level of knowledge. The Facility Trainer will introduce the session and identify the objectives of the session.

Part 2: Hand Hygiene Basics (5 minutes)

The Facility Trainer will lead participants through a discussion of the importance of hand hygiene in infection control and the "5 moments" identified by the CDC during which hand hygiene should occur. The Facility Trainer will also discuss the importance of glove use and when glove use is indicated.

Part 3: Audits and Facility Policy (10 minutes)

The Facility Trainer and participants will review the facility's most recent ICAR Domain IX and most recent hand hygiene audits. The Facility Trainer will summarize the CDC recommendations for routine auditing and participants will engage in an open discussion to identify existing gaps between the facility's practices and the CDC's recommendation for audits. Together, participants and the Facility Trainer will work on an action plan to mitigate any gaps.

Part 4: Simulation and Demonstration (30 minutes)

The Facility Trainer will demonstrate proper hand hygiene first with a hand-washing station (soap and water), then with an ABHR. Participants will then demonstrate both skills and the Facility Trainer will verify staff competency.

Part 5: Wrap-Up and To-Do List (5 minutes)

The Facility Trainer will summarize the session, reinforce the key messages, emphasize any action plans that were developed, and open the session for questions and discussion. Participants will complete a *Post-Session Assessment*.

Key messages

Following are the key messages for this session. They should be reinforced from time to time throughout this program.

- Hand hygiene is one of the most important aspects of infection control.
- Proper glove use can protect patients and staff from infection.
- Patient education and patient hand hygiene are essential to the facility's infection control.
- Evaluation and training are essential to ensure that facility staff understand and implement proper hand hygiene in practice.
- Regular audits can help facilities identify gaps in practice and guide them in determining future training needs.

Classroom Presentation

Part 1: Introduction	Estimated Time: 5 Minutes
Welcome!	Notes
As participants arrive, ask them to complete a <i>Pre-Session Assessment</i> and to sign into the <i>Facility Trainer Attendance Log</i> .	
Welcome participants to the training session.	
Present: Welcome to Module 5, Session 1: Hand Hygiene for All, a part of the infection control program. During this session, we will discuss the importance of hand hygiene in infection control, review the CDC's recommendations, and discuss the hand hygiene auditing process. We will also engage in a demonstration and simulation of proper technique for hand hygiene – both with soap and water and also with an alcohol-based hand sanitizer, or ABHR.	
Objectives	Notes
 Present: Before we begin, I will highlight the key messages we will address throughout the session for you to keep in mind as you implement what you have learned into your practice: Hand hygiene is one of the most important aspects of infection control. Proper glove use can protect patients and staff from infection. Patient education and patient hand hygiene are essential to the facility's infection control. Evaluation and training are essential to ensure that staff members understand and implement proper hand hygiene in practice. Regular audits can help facilities identify gaps in practice and guide them in determining future training needs. 	

Part Ask: Before we move on, does anyone have any questions regarding goals of this session?

Open Responses

Part 2: Hand Hygiene Basics

Estimated Time: 5 Minutes

Part 2: Hand Hygiene Basics	Estimated Time: 5 Minutes
Why is hand hygiene so important?	Notes
Refer participants to the CDC slide set "Hand Hygiene in Healthcare Settings-core" <u>http://www.cdc.gov/handhygiene/download/hand_hygiene_core.pdf</u>	
Present: Although hand hygiene seems like a basic skill, the implications of improper or inadequate hand hygiene for patients, staff, and the facility are dangerous. According to CDC, hand hygiene is one of the most effective mechanisms in infection prevention. Why?	
Globally, thousands of people die daily from healthcare associated infections (or HAIs). It is estimated in the USA that about 2 million patients acquire a HAI every year and about 90,000 of those die each year as a result. Contaminated hands are the number one cause of germ transmission causing HAIs and the spread of antimicrobial resistant infections. An abundance of evidence shows that hand hygiene reduces the incidence of these infections and that having clean hands is the #1 factor in preventing the spread of pathogens and antibiotic resistance. (Center for Disease Control and Prevention, 2002).	
This is a skill that we, as healthcare providers, need to master. But it is also essential that we educate and encourage patients, families, and any others that are involved with both direct and indirect patient care. Together we can reduce HAIs and create a safe environment for our patients.	
Part Ask : What can we do to improve hand hygiene among our staff and patients?	

Open Responses	
5 Moments for Hand Hygiene	Notes
Refer Participants to CDC Dialysis Safety: Clinician Education - Staff Competencies <u>http://www.cdc.gov/dialysis/prevention-tools/staff-</u> competencies.html WHO 5 Moments for Hand Hygiene in Hemodialysis poster	
http://www.who.int/gpsc/5may/haemodialysis.pdf	
 Present: The CDC recommends that staff be trained upon hire and re-trained <i>at least</i> annually on gloving and hand hygiene. According to the World Health Organization, there are 5 moments in which hand hygiene should <i>always</i> be performed. These include: 1. Before touching a patient. 2. Before performing a clean/aseptic procedure. 3. After body fluid exposure risk. 4. After touching a patient. 5. After touching a patient's surroundings. 	
Notes to the Facility Trainer	
Think about providing facility specific examples for each of the "5 moments". For more guidance and details, please reference WHO – Hand Hygiene: Why, How, & When? Brochure. <u>http://www.who.int/gpsc/5may/Hand_Hygiene_Why_</u> <u>How_and_When_Brochure.pdf</u>	
Ask: What is the biggest barrier to performing hand hygiene in these instances?	
Notes to the Facility Trainer	
Use the hand-out referenced above. Some examples provided include: After contact with blood or body fluids 	

Between patient stations	
After performing hand hygiene	
Glove Use	
[Handouts]]	
Refer participants to the CDC Dialysis Safety: Audit Tools and	
Checklists - Protocol for Hand Hygiene and Glove Use Observations	
http://www.cdc.gov/dialysis/prevention-tools/audit-tools.html	
	
Present: The use of gloves is an adjunct with hand hygiene.	
Proper glove use protects staff and patients from potentially infectious	
contaminants. The most important part of propr glove use is	
understanding when to use gloves. The general recommendations for	
glove use, per CDC guidelines, include:	
Holding a glove in your hand as a protectice layer, is not	
 considered acceptable glove use. Wearing gloves is necessary prior to patient contact at the 	
 Wearing groves is necessary prior to patient contact at the treatment station. 	
 Wearing gloves is necessary prior to contact with potentially 	
contaminated surfaces.	
 Always change gloves between patients. 	
 Always change gloves between clean and contaminated sites 	
on the same patient.	
201	
Ask: Can you think of some specific instances gloves should be	
worn or changed?	
• • •	
Open Responses	

Part 3: Audits and Facility Policy

Estimated Time: 10 Minutes

CDC Recommendations	Estimated Time: 10 Minutes
CDC Recommendations	Notes
<text><text><text><text><list-item><list-item><list-item><text></text></list-item></list-item></list-item></text></text></text></text>	
Facility Practice	
Refer participants to the facility's P&Ps related to auditing, training of staff, facility ICAR Domain IX, and any recent audits. Present: In order to improve infection control, we need to review the practices already in place so we can identify gaps in our audits, as compared to CDC recommendations.	

Notes to the Facility Trainer



Open the floor for a live Q&A with open responses to evaluate what is occurring at the facility and/or what needs to occur. Lead an open discussion using the questions below. The text in *italics* denotes directives and suggestions to be addressed to mitigate gaps.

Write, throughout the discussion, on a white board/flip chart/poster, noting the main points, audit results, and any gaps identified.

Pask: Are we performing monthly hand hygiene audits? Are we using the CDC tool? Do we have a record of the data collected? Who performs these audits? Who is reviewing the results?

If gaps are identified, develop a plan to implement monthly audits, utilize the CDC, and create a system to track data obtained from audits.



Ask: How is our performance on these audits? What did we do well? Where is there room for improvement? What are some barriers preventing optimal scores on the audits?

Discuss where the staff excelled and where gaps were identified. Provide data from the audits and help participants to notice trends – improvements or set-backs.

Open Responses

1	lf
S S	to
	а

Notes to the Facility Trainer

If action is required after the previous discussion, refer to Module 2, Session 2 and consider developing an action plan to update or create new P&Ps.

Barriers



Refer participants to the AHRQ Safety Program for End-Stage Renal Disease Facilities-Toolkit: Clinical Care of the Hemodialysis Patient Presentation

http://www.ahrq.gov/professionals/quality-patient-safety/patientsafety-resources/resources/esrd/clinicalcare.html



Present: The most common reasons hand hygiene is not performed regularly at healthcare facilities include:

- Lack of education regarding proper technique,
- Inadequate access to ABHR and soap and water,
- Inconvenient hand-washing station locations, and
- Poor time management skills and forgetfulness.

Ask: What are the barriers at our facility? What can we do to eliminate these barriers?



Write responses and idea generation on the white board or flip chart. If tasks are assigned, have the assigned participants write them on their Session Follow-Up Task List.



Refer participants to the facility most recent ICAR, Domain IX.



Present: In order for hand hygiene to be performed regularly, it is necessary to not only have the appropriate supplies, but to have them located for easy access. Necessary supplies include:

- Alcohol-based hand rubs,
- Handwashing sinks,
- Soap, and
- Paper Towels.

?•]

Ask: Does our facility have all the appropriate supplies? Are they available at appropriate and convenient locations?

Open Responses

Write responses and idea generation on the white board/flip chart. If tasks are assigned, have the assigned participants write them on their Session Follow-Up Task List.

Part 4: Demonstration and Simulation Estimated Time: 5-30 Minutes

Alcohol-	Based Hand Rubs (ABHR)	Notes
	Notes to the Facility Trainer	
	The time variation is due to simulation. The Facility	
	Trainer performs a demonstration of skills and each	
	participant must perform a return	
	demonstration/simulation of the skills in order to verify	
	competency.	
	If the Facility Trainer chooses, the return	
	demonstration can be held until after completion of the	
	presentation, when the Facility Trainer can dismiss	
	staff. Participants can be taken aside one by one to	
	demonstrate competency of the skill. However, this	
	must be completed immediately after the session.	
Disease I Presenta <u>http://w</u>	fer participants to AHRQ Safety Program for End-Stage Renal Facilities-Toolkit: Clinical Care of the Hemodialysis Patient tion ww.ahrq.gov/professionals/quality-patient-safety/patient- sources/resources/esrd/clinicalcare.html	
Pre	sent: Use of Alcohol-Based Hand Rubs, or ABHRs, is the	
preferre	form of hand hygiene, but there are correct and incorrect	
•	use ABHRs. Proper steps include:	
1.	Apply the recommended amount of ABHR (product-specific)	
	to the palm of one hand.	
2.	Rub your hands together, making sure to cover all surfaces of	
2	your hands and fingers.	
3.	Continue to rub your hands together until dry. Hands should never be "fanned" dry.	
	never be furniculury.	
**Demo	nstrate proper use of facility ABHR, and provide details	
regardin	g recommended amount per facility-specific product	

Module 5, Session 1: Hand Hygiene for All V1 2017, August **Ask** participants to return demonstrate proper use of ABHR. *Pass* the product around the room and observe each participant performing hand hygiene with ABHR.



Notes to the Facility Trainer

Assist participants when needed and reinforce proper technique. Make note of any participants who will need follow-up and reinforcement.

Soap and Water

Handouts

Refer participants to AHRQ Safety Program for End-Stage Renal Disease Facilities-Toolkit: Clinical Care of the Hemodialysis Patient Presentation

http://www.ahrq.gov/professionals/quality-patient-safety/patientsafety-resources/resources/esrd/clinicalcare.html



Present: Soap and water should be used instead of an ABHR when your hands are visibly soiled or if you have had contact with a patient with a spore-forming pathogen such as *Clostridium difficile*. While performing hand-washing, use warm water and avoid hot water as it can cause dermatitis. Proper steps for hand-washing include:

- 1. Wet your hands with running water.
- 2. Apply the recommended amount of soap (product-dependent).
- 3. Cover all surfaces of your hands and fingers.
- 4. Briskly rub your hands together for 15 seconds.
- 5. Rinse your hands free of soap.
- 6. Using a paper towel, dry your hands completely.
- 7. Use a paper towel to turn off the faucet.

**Demonstrate proper use of hand-washing at a facility hand-washing station, and provide details regarding recommended amount per facility-specific product

Ask participants to return-demonstrate proper use of handwashing. Have participants take turns coming up to the hand-washing station. Observe their technique, make recommendations, and give reminders of the previously mentioned recommendations.

6				
		 	_	
	-		1	
	-	-/	1	
	-		£	
	-	1	1	

Notes to the Facility Trainer

Assist participants when needed and reinforce proper technique. Make note of any participants who will need follow-up and reinforcement.

Part 5: Wrap up and To-Do List

Estimated Time: 5 Minutes

Part 5: wrap up and To-Do List	Estimated Time: 5 Minutes
То-Do	Notes
Present: All facility staff need to be diligent in following proper hand hygiene procedures. This includes performing hand hygiene and wearing gloves according to best practice recommendations, and by educating and encouraging our patients to do the same. Additionally, it is important that we participate in monthly audits and share feedback with other facility staff so we can identify gaps and areas for improvement.	
Today we have established a list of activities we need to follow up on and actions to take moving forward. Before closing the session we will review our "To-Do" list.	
 Write the to-do list on the white board/flip chart, including each task, name of the staff assigned to complete it, and the completion deadline. Ask participants to note their assigned tasks on their Session Follow-Up Task List. Items that may need to be addressed will vary by facility and may include any or all of the following: Develop P&Ps related to hand hygiene audits, Reporting of hand hygiene audits, Making supplies available to patients and staff, Conducting patient and family education, and/or Posting facility signs to remind and educate staff and patients to wash their hands. 	
Ask: Does anyone have any questions regarding the session content or action plan moving forward?	
Open Responses	

Closing	Notes
 Present and Summarize key points: Hand hygiene is one of the most important aspects of infection control. Proper glove use can protect patients and staff from infection. Patient education and follow-through on hand hygiene are essential to the facility's infection control. Evaluation and training are essential to ensure staff members understand and implement proper hand hygiene in practice Regular audits can help facilities identify gaps in practice and guide facilities in determining needs for future training. 	
Address questions or concerns. Present: Thank you all for coming and for your continuing commitment to the facility and to its infection control program. Please take the Post-Session Assessment before leaving.	
Present: Thank you all for coming and for your continuing commitment to the facility and to its infection control program. Please	

Notes and Homework

While the session is still fresh in your mind, write some notes here. Consider what worked, what you need to do differently for the next session, who you need to follow-up with, information or ideas that you need to research, and general concerns or issues that need to be addressed and how you will address them. Also, make sure to complete the *Facility Trainer Assessment Tracker* at this time with participants' pre- and post- session assessment scores.



Session Appendix

- Facility Trainer Attendance Log
- Facility Trainer Assessment Tracker
- Hand Hygiene for All Pre-Session Assessment
- Hand Hygiene for All Post-Session Assessment
- Module 5, Session 1: Participant Resources
- Session Follow-Up Task List

Facility Trainer Attendance Log

Date/Time:	
Facility:	
Location:	
Trainer:	

Participant's Name	Signature

Developed by IPRO while under contract with the Connecticut Department of Public Health, Contract Log # 2016-0083/EPI-EIP (HAIP), funded by the Centers for Disease Control and Prevention (CDC).

Facility Trainer Assessment Tracker

Date/Time:	Answer Guide:
Facility:	1. A
	 A, B, C, D B. False (monthly)
Location:	4. B, C
Trainer:	5. Opinion (looking for D or E)

Participant's Name	Pre-Assessment Score	Post-Assessment Score

Developed by IPRO while under contract with the Connecticut Department of Public Health, Contract Log # 2016-0083/EPI-EIP (HAIP), funded by the Centers for Disease Control and Prevention (CDC).

Hand Hygiene Pre-Assessment

Date:	
Participant Name:	
Facility:	

- 1. Unsafe hand hygiene practices are the number one cause of germ transmission.
 - a. True
 - b. False
- 2. Important aspects of hand hygiene at the facility include: (select all that apply)
 - a. Gloving at appropriate times
 - b. Patient education
 - c. Proper use of soap and water or alcohol-based hand sanitizers
 - d. Proper use of alcohol-based hand sanitizers
- 3. The CDC recommends quarterly hand hygiene audits and observations to be performed at each outpatient hemodialysis center.
 - a. True
 - b. False
- 4. Unsafe hand hygiene practices contribute to: (select all that apply)
 - a. Decreased spread of respiratory infection
 - b. Increased healthcare-acquired infections (HAIs)
 - c. The spread of antimicrobial resistant infections
- 5. I understand all CDC recommendations for hand hygiene related to me, my patients, and my facility.
 - a. Strongly Disagree
 - b. Disagree
 - c. Neither disagree or agree
 - d. Agree
 - e. Strongly Agree

Hand Hygiene Post-Assessment

Date:	
Participant Name:	
Facility:	

- 1. Unsafe hand hygiene practices are the number one cause of germ transmission.
 - a. True
 - b. False
- 2. Important aspects of hand hygiene at the facility include: (select all that apply)
 - a. Gloving at appropriate times
 - b. Patient education
 - c. Proper use of soap and water or alcohol-based hand sanitizers
 - d. Proper use of alcohol-based hand sanitizers
- 3. The CDC recommends quarterly hand hygiene audits and observations to be performed at each outpatient hemodialysis center.
 - a. True
 - b. False
- 4. Unsafe hand hygiene practices contribute to: (select all that apply)
 - a. Decreased spread of respiratory infection
 - b. Increased healthcare-acquired infections (HAIs)
 - c. The spread of antimicrobial resistant infections
- 5. I understand all CDC recommendations for hand hygiene related to me, my patients, and my facility.
 - a. Strongly Disagree
 - b. Disagree
 - c. Neither disagree or agree
 - d. Agree
 - e. Strongly Agree

Participant Resources

Date:	
Participant Name:	
Facility:	

- CDC Dialysis Safety: Clinician Education Staff Competencies
 - http://www.cdc.gov/dialysis/clinician/index.html
- CDC Dialysis Collaborative Audit Tool: Hemodialysis hand hygiene observations
 - <u>http://www.cdc.gov/dialysis/PDFs/collaborative/Hemodialysis-Hand-Hygiene-Observations.pdf</u>
- WHO 5 Moments for Hand Hygiene in Hemodialysis poster
 - http://www.who.int/gpsc/5may/haemodialysis.pdf
- CDC slide set "Hand Hygiene in Healthcare Settings-core"
 - http://www.cdc.gov/HandHygiene/download/hand_hygiene_core.pdf
- *CDC Dialysis Safety: Audit Tools and Checklists* Protocol for Hand Hygiene and Glove Use Observations
 - http://www.cdc.gov/dialysis/prevention-tools/audit-tools.html
- WHO Hand Hygiene: Why, How, & When?
 - <u>http://www.who.int/gpsc/5may/Hand_Hygiene_Why_How_and_When_Brochure.p_df</u>
- AHRQ Safety Program for End-Stage Renal Disease Facilities-Toolkit: Clinical Care of the Hemodialysis Patient Presentation
 - http://www.ahrq.gov/professionals/quality-patient-safety/patient-safetyresources/resources/esrd/clinicalcare.html

Session Follow- Up Task List

Date:	
Participant Name:	
Facility:	

Personal To-Do Items:

1.		
2.		
-		
4.		
5.		
6.		
Faci	ility-Wide To-Do Items:	
1.		
2.		
5.		
6.		
Additional Comments:		

V1 2017, August

Developed by IPRO while under contract with the Connecticut Department of Public Health, Contract Log # 2016-0083/EPI-EIP (HAIP), funded by the Centers for Disease Control and Prevention (CDC).