

# Affinity Group: Practical Personal Protective Equipment (PPE) Solutions

4/9/24

### Polling Questions

Have you attended or watched both Affinity sessions on auditing, and cleaning and disinfection?

- 1. Yes
- 2. No

Were you able to use any of the resources to help reinforce diligent cleaning and disinfection practices with your staff?

- 1. Yes
- 2. No





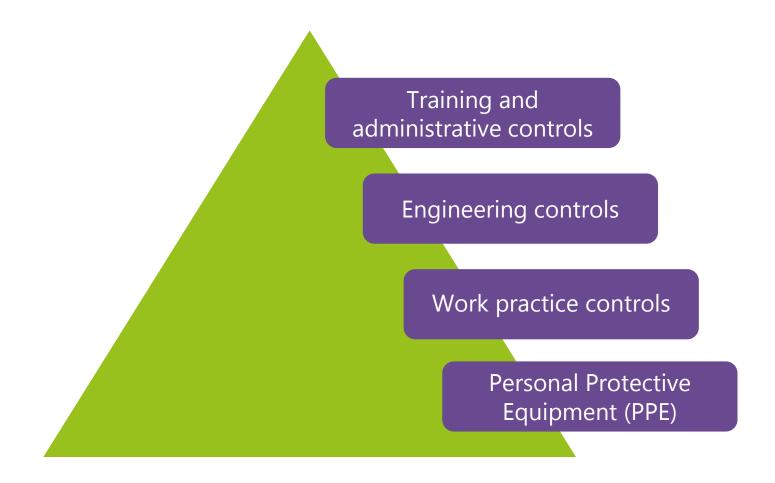
#### Objectives

- Engage assisting living and adult day care center facilities in common issue discussion and problem solving by peers
- Evaluate unique facility risks and Personal Protective Equipment (PPE) availability
- Identify opportunities to increase compliance
- Develop access solutions utilizing staff engagement



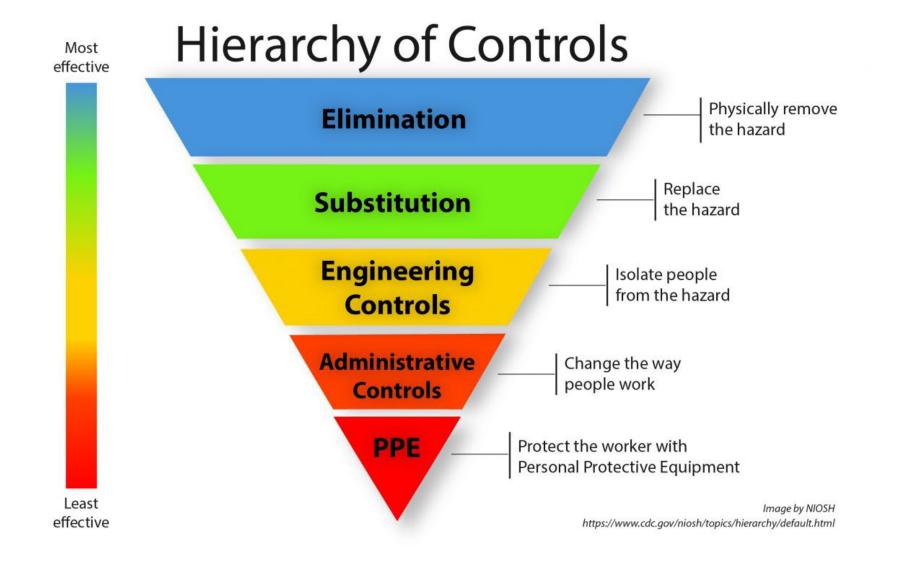


#### Hierarchy of Safety and Health Controls - Close to Home



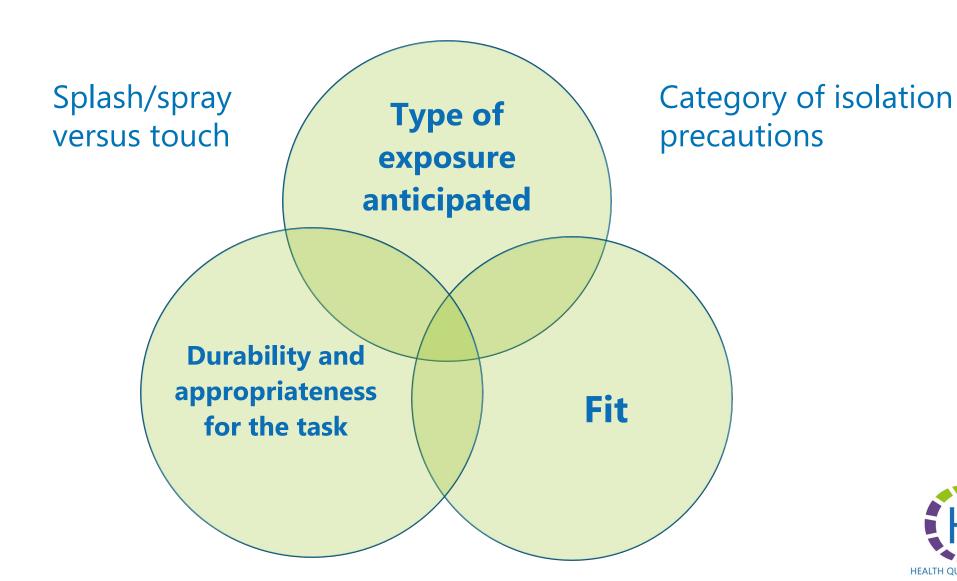


## Hierarchy of Safety and Health Controls





## Factors Influencing PPE Selection





#### When to Use PPE

**Standard Precautions** 

Transmissionbased Precautions



#### When Not to Use PPE – the "Don'ts"

- Wearing in public areas
- Failure to discard after use
- Wearing too many
- Failure to remove gloves after each task





### Types of PPE Used in Healthcare

Gloves

Masks

Gowns

Eye protection

Face shields

Shoe covers (acute care)

Head covers



#### Face Protection - Masks

#### Masks

- Purpose: limits the likelihood of transmission of infectious particles by covering the nose and mouth when speaking, sneezing or coughing
- Protect nose and mouth
- Should fully cover nose and mouth and prevent fluid penetration
- Types: cloth (not for healthcare providers), surgical (may be called procedural), KN95, N95





## Why Getting it Right is So Important





### Teaching About Masking





#### Gloves

#### Gloves

- Purpose patient care,
   environmental services, other
- Glove material vinyl, latex or nitrile
- Glove fit
- Sterile or nonsterile
- One or two pairs
- Single use or reusable





#### Do's and Don'ts of Glove Use

- Work from "clean to dirty"
- Limit opportunities for "touch contamination" protect yourself, others and the environment
  - Don't touch your face or adjust PPE with contaminated gloves
  - Don't touch environmental surfaces except as necessary during patient care
- Change gloves
  - During use if torn and when heavily soiled (even during use on the same patient)
  - After use on each patient
  - Discard in appropriate receptacle
  - Never wash or reuse disposable gloves



#### Gowns or Aprons

- Purpose of use
- Material
  - Natural or man-made
  - Reusable or disposable
  - Resistance to fluid penetration
- Clean or sterile





#### Gown Use in Standard Precautions

Wear when contact between clothing or skin with patient blood or body substances is expected.

#### For example:

- Contact with patient's non-intact skin (e.g., wounds)
- During procedures likely to generate a splash or spray of blood or body fluid
- Handling containers or patient fluids likely to leak, splash or spill



### Respiratory Protection

- Purpose protect from inhalation of infectious aerosols (example: Mycobacterium tuberculosis, COVID-19)
- PPE types for respiratory protection
  - Particulate respirators, N95
  - Half- or full-face elastomeric respirators (reuseable air-purifying respirators)
  - Powered air purifying respirators (PAPR)

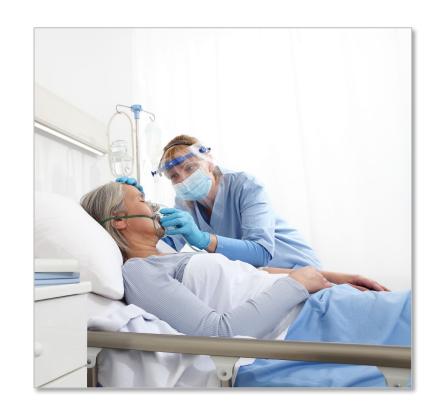




#### **Eye Protection**

- Eye goggles/safety glasses protect eyes
  - Should fit snuggly over and around eyes
  - Personal glasses not a substitute for goggles
  - Antifog feature improves clarity

- Face shields protect face, nose, mouth and eyes
  - Should cover forehead, extend below chin and wrap around sides of face





## Donning and Doffing





### CDC Donning and Doffing Sequence





#### Staff Skill Check

#### **Scenario 1:**

You walk into a resident's room and find that they have fallen; there is a 2-inch laceration to their arm that is oozing blood.

Before cleaning the wound, what PPE should you don?

#### **Scenario 2:**

You are about to assist with ADLs for someone who has Norovirus.

- What PPE would you anticipate using?
- What is the sequence for donning these items?
- What is the sequence for doffing?
- What is the possible consequence of improper donning or doffing?



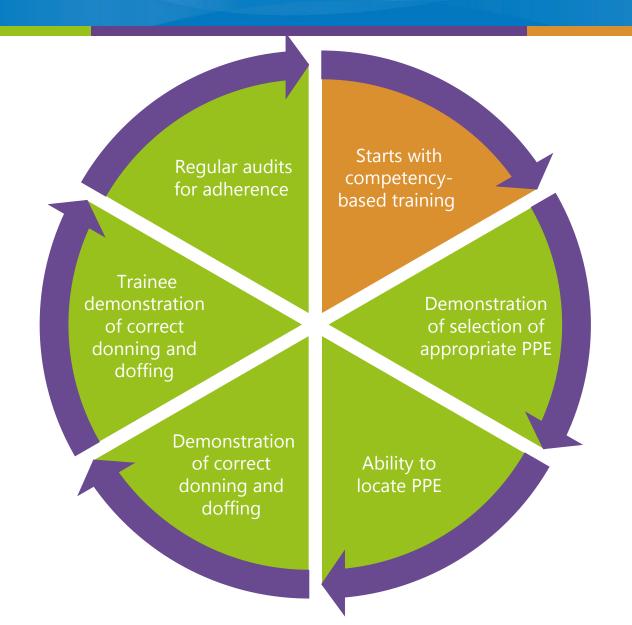
## Making it Real – Great Practice for Staff

Diarrhea Dilemma | CDC





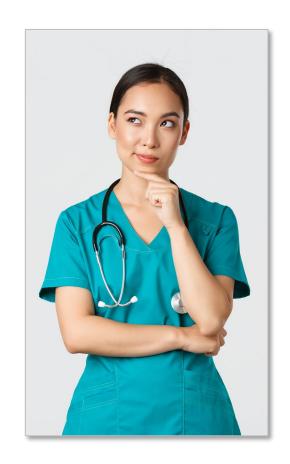
## Competency-Based Training





### Auditing – What's the Bottom Line?

- Regular audits to monitor adherence to PPE should include:
  - Appropriate selection
  - Donning
  - Doffing
  - Hand hygiene
  - Environmental contamination
  - Evaluation of appropriate supplies and equipment
  - Proximity of supplies to point of use





#### Feedback



Timely

Individualized

Non-punitive

Effect on Performance



Optimal Effect



## Training and Competency Verification

### Personal Protective Equipment (PPE) Competency Validation Donning and Doffing Standard Precautions and Transmission Based Precautions

Type of validation: Return demonstration	☐ Orientation
	☐ Annual
	□ Other

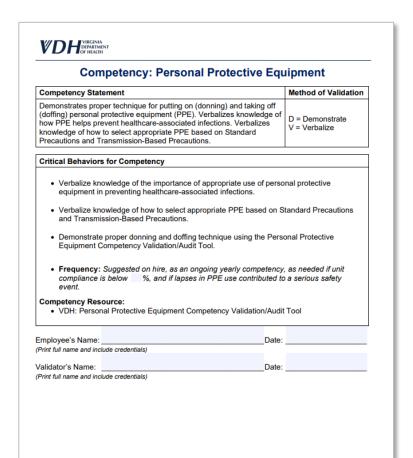
		Commetent			
	Donning PPE		Competent		
		YES	NO		
1.	Perform Hand Hygiene				
2.	Don Gown:				
	Fully covering torso from neck to knees, arms to end of wrists		_		
	Tie/fasten in back of neck and waist		_		
4.	Don Mask/Respirator:				
	Secure ties/elastic bands at middle of head & neck		_		
_	Fit flexible band to nose bridge				
6.	Fit snug to face and below chin (Fit-check respirator if applicable)				
7.	Don Goggles or Face Shield:				
	Place over face and eyes; adjust to fit				
8.	Don Gloves:				
	Extend to cover wrist of gown				
	Doffing PPE				
9.	Remove Gloves:				
	Grasp outside of glove with opposite gloved hand; peel off				
10.	Hold removed glove in gloved hand				
11.	Slide fingers of ungloved hand under remaining glove at wrist				
12.	Peel glove off over first glove				
13.	Discard gloves in waste container				
14.	Remove Goggles or Face Shield:				
	Handle by head band or ear pieces				
15.	Discard in designated receptacle if re-processed or in waste container				
16.	Remove Gown:				
	Unfasten ties/fastener				
17.	Pull away from neck and shoulders, touching inside of gown only				
18.	Turn gown inside out				
19.	Fold or roll into bundle and discard				
20.	Remove Mask/Respirator (respirator removed after exit room/closed door):				
	Grasp bottom, then top ties or elastics and remove				
21.	Discard in waste container				
22	Parform Hand thuring				

		_	
NC SPICE	; 9-201	6	

	Standard Precautions & Transmission Based Precautions		
Standard Precautions & Transmission	on Based Precautions	YES	NO
23. Staff correctly identifies the appropriate PPE for	the following scenarios:		
<ul> <li>Standard Precautions (PPE to be worn based)</li> </ul>	sed on anticipated level of		
exposure)*			
<ul> <li>b. Contact/Contact Enteric Precautions (gov</li> <li>c. Droplet Precautions (surgical mask)</li> </ul>	vn & gloves)		
d. Airborne Precautions (fit-tested respirato	or if applicable)		
OTE: Examples include: mask for coughing/vomiting wound, gown for dressing change if scrubs ma Comments or follow up actions:			
		/	
imployee Signature	Validator Signature	Date	
Cat http://www.cdc.gov/HAI/pdfs/ppe/ppeposter148.pdf		NC SPICE;	9-2016



#### VDH PPE Competency Validation Tool



Personal Protective Equipment (PP	E) Compete	ncy Va	lidation/Audit T	ool
Employee Name:  Job Title:	☐ Orientation ☐ Annual ☐ Other			
Putting On (Donning) PPE	Type of Validation D=Demonstrate V=Verbalize	Meets Criteria (Y or N)	Comments/ Recommendations	Recommendation Implemented (Date & Initials)
Performs appropriate hand hygiene	D			
Puts gown on: Fully cover torso from neck to knees, arms to end of wrists, and wrap around the back	D			
3. Ties/fastens in back of neck and waist	D			
Puts mask/respirator on: Secures ties/elastic bands at middle of head and neck	D			
5. Fits flexible band to nose bridge	D			
Fits snug to face and below chin. If respirator, performs fit check.	D			
<ol><li>Puts goggles or face shield on: Places over face and eyes; adjusts to fit</li></ol>	D			
8. Puts gloves on: Extends to cover wrist of gown	D			
Taking Off (Doffing) PPE	Type of Validation D=Demonstrate V=Verbalize	Meets Criteria (Y or N)	Comments/ Recommendations	Recommendation Implemented (Date & Initials)
<ol> <li>Removes gown and gloves: Grasps the gown in the front and pulls away from the body so that the ties break, touching outside of gown only with gloved hands</li> </ol>	D			



## One-Step vs Two-Step audit

<b>VDH</b> DEPARTMENT OF HEALTH					
Personal Protective Equipment (PP	E) Compete	ncy Val	idation/Audit T	ool	
Employee Name:	□ Orientation □ Annual □ Other				
Job Title:					
Putting On (Donning) PPE	Type of Validation D=Demonstrate V=Verbalize	Meets Criteria (Y or N)	Comments/ Recommendations	Recommendations Implemented (Date & Initials)	
Performs appropriate hand hygiene	D				
Puts gown on: Fully cover torso from neck to knees, arms to end of wrists, and wrap around the back	D				
Ties/fastens in back of neck and waist	D				
<ol> <li>Puts mask/respirator on: Secures ties/elastic bands at middle of head and neck</li> </ol>	D				
5. Fits flexible band to nose bridge	D				
<ol><li>Fits snug to face and below chin. If respirator, performs fit check.</li></ol>	D				
<ol><li>Puts goggles or face shield on: Places over face and eyes; adjusts to fit</li></ol>	D				
8. Puts gloves on: Extends to cover wrist of gown	D				
Taking Off (Doffing) PPE	Type of Validation D=Demonstrate V=Verbalize	Meets Criteria (Y or N)	Comments/ Recommendations	Recommendations Implemented (Date & Initials)	
<ol> <li>Removes gloves: Using one gloved hand, pinches palm area of other gloved hand and peels off first glove</li> </ol>	D				
or other geroe mane and poole on more geroe					
VDH DEPARTMENT OF HEALTH					
2. Holds removed glove in gloved hand	D				
Using ungloved hand, slides fingers under glove of other hand	D				



#### Resources

- Farin A. Compliance with routine use of gowns by healthcare workers (HCWs) and non-HCW visitors on entry into the rooms of patients under contact precautions. ICHE. 2007; 28(3): 337-40.
- Kilinc B. Isolation gowns in health care settings: Laboratory studies, regulations and standards, and potential barriers of gown selection and use. AJIC. 2016; 44;1: 104-111.
- PPE use in Healthcare Settings | CDC
- Sequence for Donning and Removing Personal Protective Equipment | CDC
- Hierarchy of Controls | CDC
- <u>Donning and Doffing PPE: Proper Wearing, Removal, and Disposal | CDC</u>



#### Resources

- Transmission-Based Precautions | CDC
- National Institute for Occupational Safety & Health | CDC
- Personal Protective Equipment (PPE): Protect the Worker with PPE | CDC
- <u>Leadership and Safe Work Environments: Module 4 | CDC</u>
- Pause for Prevention Module 4: Masking (Still) Matters! | HQIN
- Pause for Prevention | HQIN
- The Basics of Standard Precautions | CDC



# There is Still Time for Participation in Onsite Assessments!



#### **Benefits**:

- Establish relationship with personable and knowledgeable infection preventionist
- Obtain resources to assist with building a robust infection prevention program
- Glo-germ demonstration to elevate hand hygiene campaign
- Fit testing (on-site)

#### For more information, contact:

IPCTeam@dss.virginia.gov

HQI: mlocklin@hqi.solutions



## Looking Ahead

Next Affinity Session: Education is Extremely Important

May 14 10:00 am

Register

