

# Personal Protective Equipment (PPE) Strategies for COVID Care

4:00 – 5:00 PM ET

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# Introduction and Welcome



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# Meet Your Speakers



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## PPE Strategies for COVID Care

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## Telligen QIN-QIO

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Telligen is the Medicare Quality Innovation Network-Quality Improvement Organization (QIN-QIO) for **Colorado, Illinois, Iowa, and Oklahoma**

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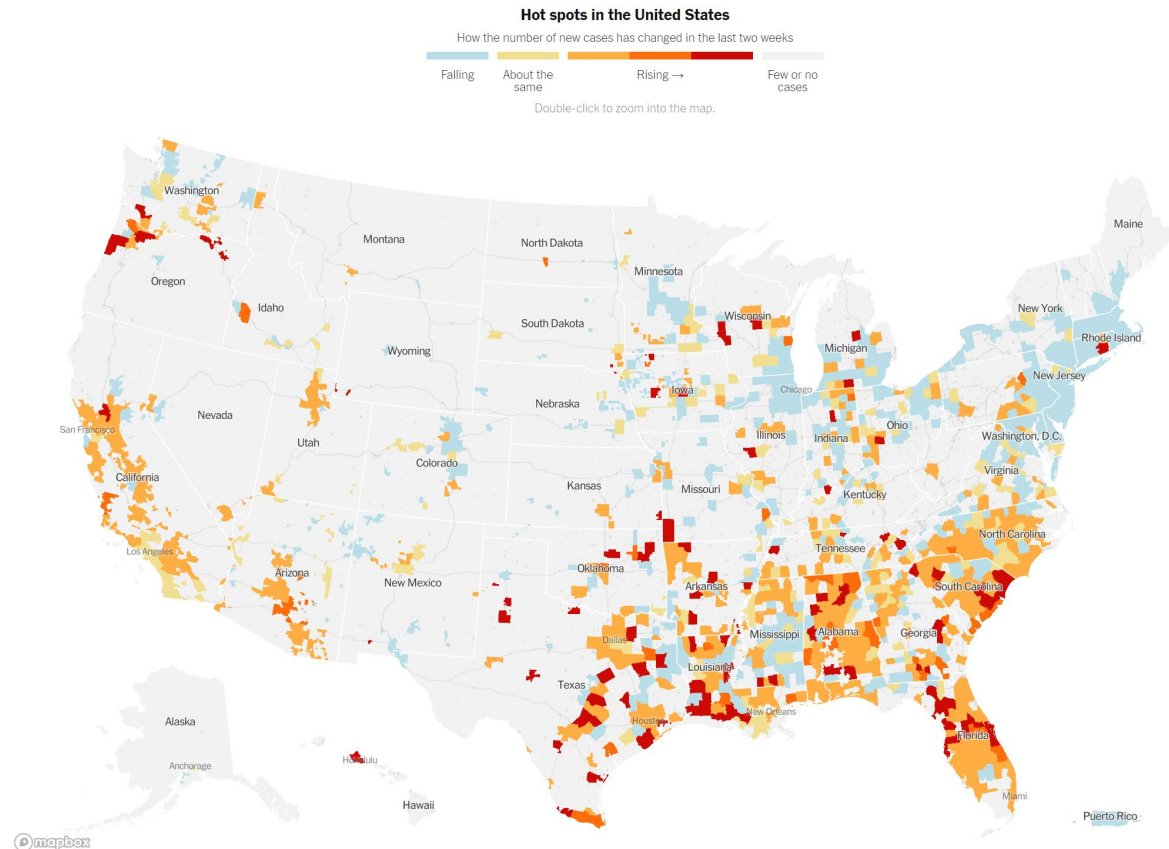
## Objectives

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- » Understand why using PPE is necessary for infection prevention
- » Describe how to properly use PPE
- » Use audits for staff training and compliance
- » Recognize promising practices and strategies for PPE inventory and proper use



# Prevalence of COVID-19 – States Where Cases Are Rising





**Personal Protective Equipment (PPE) Definition:**

*“Specialized clothing or equipment worn by an employee for protection against infectious materials.” (OSHA)*



## Why Use PPE?

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- » Used by Healthcare Professionals to protect themselves, patients, and others when providing care
- » Protects from infectious patients, lab samples, toxic medications, potentially dangerous substances used in healthcare



- » Audit staff PPE compliance routinely
- » Identify PPE compliance problems, concerns or obstacles
- » Complete root cause analysis (RCA)
- » Select intervention
- » Run plan-do-study-act (PDSA) cycles
- » Create sustainment plan

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## How to properly use PPE

Refer to CDC guidance: <https://www.cdc.gov/coronavirus/2019-ncov/hcp/using-ppe.html>

## Types of PPE

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- » Gloves – protect hands
- » Gowns – protect skin and/or clothing
- » Facemasks – protect mouth/nose
- » Respirators – protect respiratory tract from airborne infectious agents
- » Eye protection – protects the eyes
- » Face shields – protect face, mouth, nose, and eyes



- ✓ **Residents** with confirmed or possible COVID-19 should wear a facemask
- ✓ **Healthcare personnel** should adhere to standard and transmission-based precautions

Recommended PPE is described in the [Infection Control Guidance](#)



## Proper Use of PPE

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- » PPE must be donned correctly
- » PPE must remain in place for the duration of work in potentially contaminated areas
- » PPE should not be adjusted during resident care
- » PPE must be removed slowly and deliberately in a sequence that prevents self-contamination
- » A step-by-step process should be developed and used during training and resident care



## Identifying Correct PPE

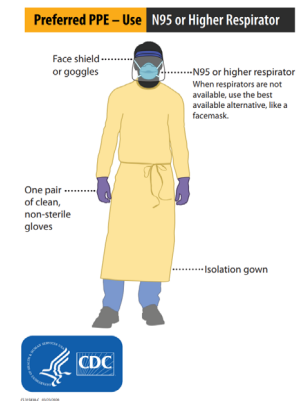
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- » Standard Precautions for All Patient Care
- » Transmission-Based Precautions

» <https://www.cdc.gov/infectioncontrol/basics/index.html>



1. Identify and gather the proper PPE to don.
2. Perform hand hygiene using hand sanitizer.
3. Put on isolation gown.
4. Put on NIOSH-approved N95 filtering facepiece respirator or higher (use a facemask if a respirator is not available).
5. Put on face shield or goggles.
6. Put on gloves. Gloves should cover the cuff (wrist) of gown.



<https://www.cdc.gov/coronavirus/2019-ncov/hcp/using-ppe.html>



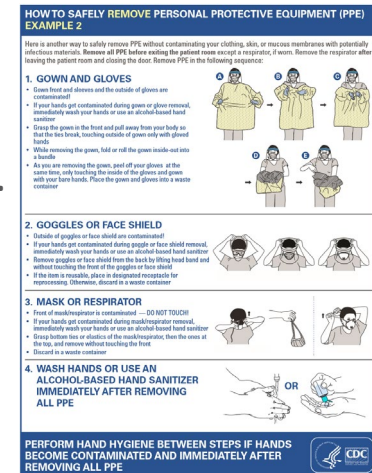


# Doffing

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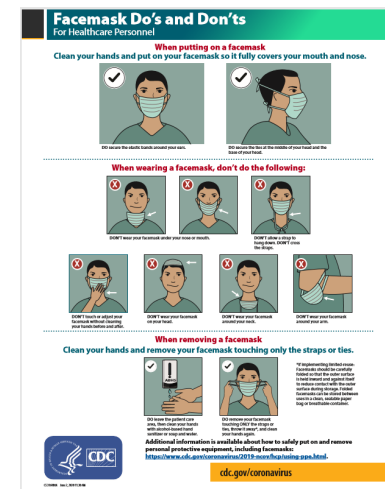
1. Remove gloves.
2. Remove gown.
3. Healthcare professional may now exit patient room.
4. Perform hand hygiene.
5. Remove face shield or goggles.
6. Remove and discard respirator (or facemask if used instead of respirator).
7. Perform hand hygiene after removing the respirator/facemask and before putting it on again if your workplace is practicing reuse.

<https://www.cdc.gov/coronavirus/2019-ncov/hcp/using-ppe.html>



# Facemask Do's and Don'ts

- » When putting on a facemask:
  - » Clean your hands and put on your facemask so it fully covers your mouth and nose
- » When wearing a facemask, don't do the following:
  - » Don't wear your facemask under your nose or mouth
  - » Don't allow a strap to hang down. Don't cross the straps
  - » Don't touch or adjust your facemask without cleaning your hands before and after
  - » Don't wear your facemask on your head
  - » Don't wear your facemask around your neck
  - » Don't wear your facemask around your arm



<https://www.cdc.gov/coronavirus/2019-ncov/downloads/hcp/fs-facemask-dos-donts.pdf>





## **PPE staff training and auditing**

V. Personal Protective Equipment (PPE)		
Elements to be assessed	Assessment	Notes/Areas for Improvement
A. The facility has a policy on Standard Precautions which includes selection and use of PPE (e.g., indications, donning/doffing procedures).	<input type="radio"/> Yes <input type="radio"/> No	Click here to enter text.
B. The facility has a policy on Transmission-based Precautions that includes the clinical conditions for which specific PPE should be used (e.g., <i>C. difficile</i> , Influenza).	<input type="radio"/> Yes <input type="radio"/> No	Click here to enter text.
C. Appropriate personnel receive job-specific training and competency validation on proper use of PPE at the time of employment.	<input type="radio"/> Yes <input type="radio"/> No	Click here to enter text.
D. Appropriate personnel received job-specific training and competency validation on proper use of PPE within the past 12 months.	<input type="radio"/> Yes <input type="radio"/> No	Click here to enter text.
E. The facility routinely audits (monitors and documents) adherence to PPE use (e.g., adherence when indicated, donning/doffing). <i>Note: If yes, facility should describe auditing process and provide documentation of audits</i>	<input type="radio"/> Yes <input type="radio"/> No	Click here to enter text.
F. The facility provides feedback to personnel regarding their PPE use. <i>Note: If yes, facility should describe feedback process and provide documentation of feedback reports</i>	<input type="radio"/> Yes <input type="radio"/> No	Click here to enter text.
G. Supplies necessary for adherence to proper PPE use (e.g., gloves, gowns, masks) are readily accessible in resident care areas (i.e., nursing units, therapy rooms).	<input type="radio"/> Yes <input type="radio"/> No	Click here to enter text.



- » Audits can provide immediate feedback to staff using PPE incorrectly and can also help identify gaps in practice and training
- » All clinical and non-clinical staff who use PPE in the course of their duties need to be audited. This includes all licensed health care personnel, all unlicensed health care personnel, physicians, volunteers and trainees.
- » Audit and Feedback ensure that health care personnel are competent to perform their duties
- » <https://www.cdc.gov/infectioncontrol/pdf/strive/PPE104-508.pdf>





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### Personal Protective Equipment (PPE) Audit Tool

Use this tool to conduct observation audits of donning and doffing PPE and track compliance. The tool includes a compliance calculator to get a compliance rate. PPE compliance is critical for infection prevention, consider developing a PPE quality improvement plan and use this tool to measure compliance rates over time, to track if your quality improvement activity is working.

Who are you observing?: \_\_\_\_\_ Date: \_\_\_\_\_

**Audit worksheet**

Donning	YES	NO	N/A	Feedback
<b>Identify and gather the proper PPE to don.</b> <i>Ensure choice of gown size is correct (based on training).</i>				
<b>Perform hand hygiene</b>				
<b>Put on isolation gown.</b> <i>Tie all the ties on the gown.</i>				
<b>Put on NIOSH-approved N95 filtering facepiece respirator or higher (use a facemask if a respirator is not available).</b> <i>If the respirator has a</i>				

[https://www.telligenqinqio.com/wp-content/uploads/2020/06/PPE-Audit-Tool\\_FNL.pdf/](https://www.telligenqinqio.com/wp-content/uploads/2020/06/PPE-Audit-Tool_FNL.pdf/)



- » Maintain documentation such as PPE audits
- » Establish and implement written policies and procedures for PPE
- » Evaluate PPE audit process and results
  - » Develop corrective actions that will be designed to effect change at the systems level
  - » Develop plan to sustain interventions that improve PPE compliance
- » Implement preventive actions that include feedback and learning throughout the facility





**Promising practices and strategies for PPE**



### General tips

- » Have step-by-step procedures for donning and doffing PPE
- » Ongoing staff training and practice is critical
- » Create picture name badges for team members to mitigate the challenge of residents not seeing their faces



### **Training and Education**

- » Provide more than one way to educate staff on PPE use (pictures, videos, webinars, written documents, emails)
- » Utilize apps - CREW app, PPE audit apps
- » Education and observation occur daily!
- » Include housekeeping and dietary in training
- » Develop a respiratory protection program



### Supply

- » Establish a plan for surge capacity and optimization of PPE when it is necessary and appropriate to do so
  - » Reference CDC's strategies to optimize PPE supply:  
<https://www.cdc.gov/coronavirus/2019-ncov/hcp/ppe-strategy/index.html>
- » Develop a relationship with your vendors (more than one is a good idea) and State Health Department
- » Keep a close eye on your inventory
- » Determine need based on acuity, changes in acuity, and burn rate.
  - » [CDC's Burn Rate Calculator](#) and [NIOSH PPE Tracker App](#)



## Ways to Conserve PPE to Avoid Running Out

- **Gloves:** should be worn for any contact with the resident or their environment
- **Gowns:** should be prioritized for activities where splashes and sprays are anticipated or high-contact resident-care activities
  - Dressing, bathing/showering, transferring, providing hygiene, changing linens, changing briefs or assisting with toileting, device care or use, wound care
- **“Extended Use” of eye protection, N95 respirator, and facemask:** extended use means these items are worn for the care of multiple patients without removing them
  - Prioritize N95 during shortages for high-risk activities (like aerosol-generating procedures)
- Personnel who do not interact with residents (do not come within 6 feet of them) or who do not clean patient environments or equipment, do not need to wear PPE except as part of universal masking



<https://www.youtube.com/watch?v=YYTATw9yav4&feature=youtu.be>





## Resources

## CDC resources and guidelines

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- » VIDEO – How to safely put on PPE - <https://youtu.be/of73FN086E8>
- » How to put on and take off PPE fact sheet - [https://www.cdc.gov/coronavirus/2019-ncov/downloads/A\\_FS\\_HCP\\_COVID19\\_PPE.pdf](https://www.cdc.gov/coronavirus/2019-ncov/downloads/A_FS_HCP_COVID19_PPE.pdf)
- » Facemask do's and don'ts - <https://www.cdc.gov/coronavirus/2019-ncov/downloads/hcp/fs-facemask-dos-donts.pdf>
- » Poster on how to put on and take off PPE to put in your nursing home - [https://www.cdc.gov/coronavirus/2019-ncov/downloads/A\\_FS\\_HCP\\_COVID19\\_PPE\\_11x17.pdf](https://www.cdc.gov/coronavirus/2019-ncov/downloads/A_FS_HCP_COVID19_PPE_11x17.pdf)



# Thank You!

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Please contact the Telligen Nursing Home Team

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- » [www.TelligenQINQIO.com](http://www.TelligenQINQIO.com)



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**Join us for a  
National Learning & Action Network (LAN) Event  
Tuesday, June 30 from 2:00-3:00 pm ET**

This event will provide an overview of the different activities and resources that State Healthcare-associated Infections and Antibiotic Resistance (HAI/AR) prevention programs and Quality Innovation Network-Quality Improvement Organizations (QIN-QIOs) are offering to assist nursing homes during the COVID-19 pandemic.

More details to come soon, be on the lookout.



# Open Discussion and Questions



Join Us!



Join us for the next  
Nursing Home Training Call  
on Thursday, July 2, 2020  
from 4:00 - 5:00 pm ET

## **Transparency: Resident and Family Notification**

Register for the trainings through the QIO Program website:

<https://qioprogram.org/nursing-home-trainings>

Thank You



THANK YOU

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<https://www.surveymonkey.com/r/YVPXW99>

We will use the information you provide to improve future events.