

This document has been archived. Please refer to [PA-HAN-597](#) for updated information on the topic.



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<b>TO:</b>	Health Alert Network
<b>FROM:</b>	Alison Beam, JD, Acting Secretary of Health
<b>SUBJECT:</b>	<b>UPDATE: Interim Infection Prevention and Control Recommendations for Healthcare Settings during the COVID-19 Pandemic</b>
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**This transmission is a “Health Update”: provides updated information regarding an incident or situation; unlikely to require immediate action.**

**HOSPITALS:** PLEASE SHARE WITH ALL MEDICAL, PEDIATRIC, NURSING AND LABORATORY STAFF IN YOUR HOSPITAL; **EMS COUNCILS:** PLEASE DISTRIBUTE AS APPROPRIATE; **FQHCs:** PLEASE DISTRIBUTE AS APPROPRIATE **LOCAL HEALTH JURISDICTIONS:** PLEASE DISTRIBUTE AS APPROPRIATE; **PROFESSIONAL ORGANIZATIONS:** PLEASE DISTRIBUTE TO YOUR MEMBERSHIP; **LONG-TERM CARE FACILITIES:** PLEASE SHARE WITH ALL MEDICAL, INFECTION CONTROL, AND NURSING STAFF IN YOUR FACILITY

This HAN Update provides comprehensive information regarding infection prevention and control for COVID-19 in healthcare settings. This update replaces PA-HAN-524. Major additions and edits in this version (compared to HAN 524) are written in red and include:

- Edited language to emphasize that to be effective, facemasks and cloth face coverings must be well-fitting.
- The addition of options for screening patients, visitors, and healthcare personnel (HCP) upon entry to the healthcare facility.
- The recommendation to utilize universal use of eye protection for all patient care encounters now excludes facilities located in areas with minimal to no community transmission. Applicable definitions are provided at the end of the Update.
- The addition of clarifying language to indicate that the prevention measures indicated for persons with COVID-19 are also indicated for persons on quarantine.
- Respirators are recommended for care of persons with COVID-19. Language suggesting the use of facemasks if respirators are not available has been removed.

If you have additional questions about this guidance, please contact DOH at 1-877-PA-HEALTH (1-877-724-3258) or your local health department.

This guidance has been updated based on currently available information about COVID-19 and the current situation in Pennsylvania. It applies to all persons regardless of COVID-19 vaccination status, unless otherwise indicated. **This HAN replaces PA-HAN-524.** If you have questions about

this guidance, please contact DOH at **1-877-PA-HEALTH (1-877-724-3258)** or your local health department. This guidance is not intended for non-healthcare settings (e.g., schools) OR for persons outside of healthcare settings.

## **I. RECOMMENDED ROUTINE INFECTION PREVENTION AND CONTROL (IPC) PRACTICES DURING THE COVID-19 PANDEMIC**

DOH recommends using the following additional infection prevention and control practices during the COVID-19 pandemic, along with standard practices recommended as a part of routine healthcare delivery to all patients. These practices are intended to apply to all patients, not just those with suspected or confirmed SARS-CoV-2 infection (See Section 2 for additional practices that should be used when caring for patients with suspected or confirmed SARS-CoV-2 infection).

### **A. Implement Telehealth and Nurse-Directed Triage Protocols**

- Continue to use [telehealth strategies](#) to provide high-quality patient care and reduce the risk of SARS-CoV-2 transmission in healthcare settings.
- When scheduling appointments for routine medical care (e.g., annual physical, elective surgery):
  - Advise patients that they should put on their own [well-fitting form](#) of source control before entering the facility.
  - Instruct patients to call ahead and discuss the need to reschedule their appointment if:
    - They have [symptoms of COVID-19](#) within the 10 days prior to their appointment.
    - They have been diagnosed with SARS-CoV-2 infection within the 10 days prior to their appointment.
    - They have had close contact with someone with suspected or confirmed SARS-CoV-2 infection within 14 days prior to their scheduled appointment.
- When scheduling appointments for patients requesting evaluation for possible SARS-CoV-2 infection, use nurse-directed [triage protocols](#) to determine if an appointment is necessary or if the patient can be managed from home.
  - If the patient must come in for an appointment, instruct them to call beforehand to inform triage personnel that they have symptoms of COVID-19 and to take appropriate preventive actions (e.g., follow triage procedures, put on their own well-fitting form of source control before entry and throughout their visit or, if a well-fitting form of source control cannot be tolerated, hold a tissue against their mouth and nose to contain respiratory secretions).

### **B. Screen and Triage Everyone Entering a Healthcare Facility for Signs and Symptoms of COVID-19**

Although screening for symptoms will not identify asymptomatic or pre-symptomatic individuals with SARS-CoV-2 infection, symptom screening remains an important strategy to identify those who could have COVID-19 so appropriate precautions can be implemented.

- Take steps to ensure that everyone adheres to source control measures and hand hygiene practices while in a healthcare facility
  - Post [visual alerts](#) (e.g., signs, [posters](#)) at the entrance and in strategic places (e.g., waiting areas, elevators, cafeterias) to provide instructions (in appropriate languages) about wearing a well-fitting form of source control and how and when to perform hand hygiene.
  - Provide supplies for respiratory hygiene and cough etiquette, including alcohol-based hand sanitizer (ABHS) with 60-95% alcohol, tissues, and no-touch receptacles for disposal, at healthcare facility entrances, waiting rooms, and patient check-ins.

- Limit and monitor points of entry to the facility.
- Consider establishing screening stations outside the facility to screen individuals [before they enter](#).
- Screen everyone (patients, HCP, visitors) entering the healthcare facility for [symptoms](#) consistent with COVID-19 or exposure to others with suspected or confirmed SARS-CoV-2 infection and ensure they are practicing source control.

Options could include (but are not limited to): individual screening on arrival at the facility; or implementing an electronic monitoring system in which, prior to arrival at the facility, people report absence of fever and symptoms of COVID-19, absence of a diagnosis of SARS-CoV-2 infection in the prior 10 days, and confirm they have not been exposed to others with SARS-CoV-2 infection during the prior 14 days.

- Fever can be either measured temperature  $\geq 100.0^{\circ}\text{F}^*$  or subjective fever. People might not notice symptoms of fever at this level, so they should be encouraged to actively take their temperature at home or have their temperature taken upon arrival. [\*Note this is a lower threshold than what is outlined for non-healthcare settings ( $\geq 100.4^{\circ}\text{F}$ ).]
- Ask them if they have been advised to self-quarantine because of exposure to someone with SARS-CoV-2 infection.
- Ask them if they have had a COVID-19 test with results pending. Persons with pending results should be quarantined unless testing was completed as part of a surveillance testing strategy, as is being used in long-term care facilities.
- Properly manage anyone with symptoms of COVID-19 or who has been advised to self-quarantine:
  - HCP should return home and should notify occupational health services to arrange for further evaluation.
  - Visitors should be restricted from entering the facility.
  - Patients should be isolated in an examination room with the door closed.
  - If an examination room is not immediately available, such patients should not wait among other patients seeking care.
    - Identify a separate, well-ventilated space that allows waiting patients to be separated by 6 or more feet, with easy access to respiratory hygiene supplies.
    - In some settings, patients might opt to wait in a personal vehicle or outside the healthcare facility where they can be contacted by mobile phone when it is their turn to be evaluated.
    - Depending on the level of transmission in the community, facilities might also consider designating a separate area at the facility (e.g., an ancillary building or temporary structure) or nearby location as an evaluation area where patients with symptoms of COVID-19 can seek evaluation and care.

### **C. Re-evaluate admitted patients for signs and symptoms of COVID-19**

Screening for fever and symptoms should be incorporated into daily assessments of all admitted patients. All fevers and symptoms consistent with COVID-19 among admitted patients should be properly managed and evaluated (e.g., place any patient with unexplained fever or symptoms of COVID-19 on appropriate Transmission-Based Precautions and evaluate).

### **D. Implement Universal Source Control Measures**

Source control refers to use of well-fitting [cloth masks](#), facemasks, or respirators to cover a person's mouth and nose to prevent spread of respiratory secretions when they are talking, sneezing, or coughing. **In addition to providing source control, these devices also offer varying**

levels of protection for the wearer against exposure to infectious droplets and particles produced by infected people. Ensuring a proper fit is important to optimize both the source control and protection offered. Because of the potential for asymptomatic and pre-symptomatic transmission, source control measures are recommended for everyone in a healthcare facility, even if they do not have symptoms of COVID-19, and regardless of vaccination status.

Options to assure a well-fitting facemask may include use of one or several strategies:

- Selection of a facemask with a nose wire to help the facemask conform to the face;
- Selection of a facemask with ties rather than ear loops;
- Use of a mask fitter;
- Tying the facemask's ear loops and tucking in the side pleats;
- Fastening the facemask's ear loops behind the wearer's head;
- Use of a cloth mask over the facemask to help it conform to the wearer's face.

Additional information about strategies to improve fit and filtration, are available in [Improve the Fit and Increase the Filtration of Your Mask to Help Stop the Spread of COVID-19](#). CDC has also created an [FAQ addressing use of 2 masks at the same time in a healthcare setting](#).

- **Universal Source Control for Patients and Visitors:** Patients and visitors should, ideally, wear their own well-fitting form of source control upon arrival to and throughout their stay in the facility. If they do not bring their own, they should be offered an option that is equivalent to what is recommended for people in the community.
  - Patients may remove their source control when in their rooms but should put it back on when around others (e.g., when visitors enter their room) or leaving their room.
  - Cloth masks, facemasks and respirators should not be placed on young children under age 2, anyone who has trouble breathing, or anyone who is unconscious, incapacitated or is otherwise unable to remove the mask without assistance.
  - **Visitors who are not able to wear source control should be encouraged to use alternatives to on-site visits with patients (e.g., telephone or internet communication), particularly if the patient is at increased risk for severe illness from SARS-CoV-2 infection.**
  - Educate patients, visitors, and HCP about the importance of performing hand hygiene immediately before and after any contact with their facemask or cloth mask.
- **Universal Source Control for HCP:** HCP should wear well-fitting source control at all times while they are in the healthcare facility, including in breakrooms or other spaces where they might encounter co-workers.
  - **Well-fitting source control could include an N95 respirator OR a respirator approved under standards used in other countries that are similar to NIOSH-approved N95 filtering facepiece respirators OR a well-fitting facemask.**
  - To reduce the number of times HCP must touch their face and potential risk for self-contamination, HCP should consider continuing to wear the same respirator or well-fitting facemask throughout their entire work shift when the respirator or facemask is used for source control.
  - If implementing new strategies or equipment to improve fit, HCP should receive training on how to safely don and doff their facemask and on the facility protocol for cleaning and disinfecting any reusable equipment (e.g., fitter). HCP should also ensure that any new strategies or equipment do not impede their vision or ability to breathe.
  - HCP should remove their respirator or facemask, perform hand hygiene, and put on their community source control (i.e., mask), when leaving the facility at the end of their shift.

## **E. Encourage Physical Distancing**

Healthcare delivery requires close physical contact between patients and HCP. However, when possible, physical distancing (maintaining 6 feet between people) is an important strategy to prevent SARS-CoV-2 transmission.

Examples of how physical distancing can be implemented for patients include:

- Limiting visitors to the facility to those essential for the patient's physical or emotional well-being and care (e.g., care partner, parent).
  - Encourage use of alternative mechanisms for patient and visitor interactions such as video-call applications on cell phones or tablets.
  - Nursing homes should follow CMS guidance [QSO-20-39-NH](#) for visitation.
- Scheduling appointments to limit the number of patients in waiting rooms or creating a process so that patients can wait outside or in their vehicle while waiting for their appointment.
- Arranging seating in waiting rooms so patients can sit at least 6 feet apart.
- Modifying in-person group healthcare activities (e.g., group therapy, recreational activities) by implementing virtual methods (e.g., video format for group therapy) or scheduling smaller in-person group sessions while having patients sit at least 6 feet apart.
  - In some circumstances, such as higher levels of community transmission or numbers of patients with COVID-19 being cared for at the facility, and when healthcare-associated transmission is occurring, facilities might cancel in-person group activities in favor of an exclusively virtual format.

For HCP, the potential for exposure to SARS-CoV-2 is not limited to direct patient care interactions. Transmission can also occur through unprotected exposures to asymptomatic or pre-symptomatic co-workers in breakrooms or co-workers or visitors in other common areas. Examples of how physical distancing can be implemented for HCP include:

- Reminding HCP that the potential for exposure to SARS-CoV-2 is not limited to direct patient care interactions.
- Emphasizing the importance of source control and physical distancing in non-patient care areas.
- Providing family meeting areas where all individuals (e.g., visitors, HCP) can remain at least 6 feet apart from each other.
- Designating areas for HCP to take breaks, eat, and drink that allow them to remain at least 6 feet apart from each other, especially when they must be unmasked.

## **F. Implement Universal Use of Personal Protective Equipment in Areas with Moderate to Substantial Community Transmission**

**PPE recommended for the care of patients with suspected or confirmed SARS-CoV-2 infection is described in Section II.** HCP should continue to follow [Standard Precautions](#) (and [Transmission-Based Precautions](#) if required based on the suspected diagnosis; for example, use an N95 respirator or equivalent or higher level respirator if the patient is suspected to have tuberculosis).

**HCP working in facilities located in areas with moderate to substantial community transmission are more likely to encounter asymptomatic or pre-symptomatic patients with SARS-CoV-2 infection.** These encounters can lead to transmission, and HCP with these exposures may require absence from work per recommendations in [PA-HAN-560](#).

If SARS-CoV-2 infection is **not** suspected in a patient presenting for care (based on symptom and exposure history) **AND the facility is located in an area with moderate to substantial community transmission:**

- **Wear an N95 or equivalent or higher-level respirator, instead of a facemask,** for:
  - Aerosol generating procedures (refer to CDC [Which procedures are considered aerosol generating procedures in healthcare settings FAQ](#)) and
  - Surgical procedures that might pose higher risk for transmission if the patient has COVID-19 (e.g., that generate potentially infectious aerosols or involving anatomic regions where viral loads might be higher, such as the nose and throat, oropharynx, respiratory tract) (refer to CDC [Surgical FAQ](#)).
- **Universal Eye Protection for HCP:** HCP should wear eye protection during patient care encounters to ensure the eyes are also protected from exposure to respiratory secretions.

**HCP working in areas with minimal to no community transmission** should continue to adhere to [Standard](#) and [Transmission-Based Precautions](#) based on anticipated exposures and suspected or confirmed diagnoses. This might include use of eye protection, an N95 or equivalent or higher-level respirator, as well as other PPE. In addition, universal use of a well-fitting facemask for source control is recommended for HCP if not otherwise wearing a respirator.

#### **G. Consider Performing Targeted SARS-CoV-2 Testing of Patients Without Signs or Symptoms of COVID-19**

In addition to the use of universal PPE and source control in healthcare settings, targeted SARS-CoV-2 testing of patients without signs or symptoms of COVID-19 might be used to identify those with asymptomatic or pre-symptomatic SARS-CoV-2 infection and further reduce risk for exposures in some healthcare settings. Depending on guidance from local and state health departments, testing availability, and how rapidly results are available, facilities can consider implementing pre-admission or pre-procedure diagnostic testing with authorized nucleic acid or antigen detection assays for SARS-CoV-2.

Testing results might inform decisions about rescheduling elective procedures or about the need for additional Transmission-Based Precautions when caring for the patient. Limitations of using this testing strategy include obtaining negative results in patients during their incubation period who later become infectious and false negative test results, depending on the test method used.

Testing strategies for nursing homes and other long-term care facilities are outlined elsewhere including on the DOH [website](#), the DHS [website](#) and in [PA-HAN-530](#) or its successor.

#### **H. Consider if elective procedures, surgeries, and non-urgent outpatient visits should be postponed in certain circumstances.**

Facilities must balance the need to provide necessary services while minimizing risk to patients and HCP. Facilities should consider the potential for patient harm if care is deferred when making decisions about providing elective procedures, surgeries, and non-urgent outpatient visits. Refer to the [Framework for Healthcare Systems Providing Non-COVID-19 Clinical Care During the COVID-19 Pandemic](#) for additional guidance.

#### **I. Optimize the Use of Engineering Controls and Indoor Air Quality**

- Optimize the use of engineering controls to reduce or eliminate exposures by shielding HCP and other patients from infected individuals. Examples of engineering controls include:

- Physical barriers and dedicated pathways to guide symptomatic patients through triage areas.
- Remote triage facilities for patient intake areas.
- If climate permits, outdoor assessment and triage stations for patients with respiratory symptoms.
- Vacuum shrouds for surgical procedures likely to generate aerosols.
- Reassess the use of open bay recovery areas.
- Explore options to improve indoor air quality in all shared spaces.
  - Optimize air-handling systems (ensuring appropriate directionality, filtration, exchange rate, proper installation, and up to date maintenance).
  - Consider the addition of portable solutions (e.g., portable HEPA filtration units) to augment air quality in areas when permanent air-handling systems are not a feasible option.
- Guidance on ensuring that ventilation systems are operating properly are available in the following resources:
  - [Guidelines for Environmental Infection Control in Health-Care Facilities](#)
  - [American Society of Heating, Refrigerating and Air-Conditioning Engineers \(ASHRAE\) resources for healthcare facilities](#), which also provides [COVID-19 technical resources for healthcare facilities](#)

**J. Create a Process to Respond to SARS-CoV-2 Exposures Among HCP and Others**

Healthcare facilities should have a process for notifying the health department about suspected or confirmed cases of SARS-CoV-2 infection, and should establish a plan, in consultation with local public health authorities, for how exposures in a healthcare facility will be investigated and managed and how [contact tracing](#) will be performed. The plan should address the following:

- Who is responsible for identifying contacts (e.g., HCP, patients, visitors) and notifying potentially exposed individuals?
- How will such notifications occur?
- What actions and follow-up are recommended for those who were exposed?

Contact tracing should be carried out in a way that protects the confidentiality of affected individuals and is consistent with applicable laws and regulations. HCP and patients who are currently admitted to the facility or were transferred to another healthcare facility should be prioritized for notification. These groups, if infected, have the potential to expose a large number of individuals at higher risk for severe disease, or in the situation of admitted patients, are at higher risk for severe illness themselves.

Guidance about when HCP with suspected or confirmed SARS-CoV-2 infection may return to work is available in [PA-HAN-553](#). Information about risk assessment and work restrictions for HCP exposed to SARS-CoV-2 is available in [PA-HAN-560](#).

Healthcare facilities must be prepared for potential staffing shortages and have emergency management plans and processes in place to mitigate these, including providing [resources](#) to assist HCP with anxiety and stress. [Strategies to mitigate staffing shortages](#) are available.

**II. RECOMMENDED INFECTION PREVENTION AND CONTROL (IPC) PRACTICES WHEN CARING FOR A PATIENT EXPOSED TO COVID-19 OR WITH COVID-19 INFECTION**

Guidance in this section applies to all healthcare facilities and may be applicable in non-healthcare congregate settings. Additional guidance is available for long-term care facilities in [PA-HAN-530](#) or

its successor and is designed to add additional elements of protection for vulnerable populations in these facility types.

The IPC recommendations described below also apply to patients who have met criteria for a 14-day quarantine based on prolonged close contact with someone with SARS-CoV-2 infection. Patients in this 14-day quarantine period should be isolated in a single-person room and cared for by HCP using all PPE recommended for a patient with suspected or confirmed SARS-CoV-2 infection. However, these patients should NOT be cohorted with patients with SARS-CoV-2 infection unless they are also confirmed to have SARS-CoV-2 infection through testing. This strategy maximally reduces post-quarantine transmission risks and is the strategy with the greatest collective experience at present.

Alternatives to the 14-day quarantine period are described in [PA-HAN-559](#). Healthcare facilities could consider these alternatives as a measure to mitigate staffing shortages, space limitations, or PPE supply shortages but, due to the special nature of healthcare settings (e.g., patients at risk for worsening outcomes, critical nature of healthcare personnel, challenges with physical distancing), not as a preferred option. Healthcare facilities should understand that shortening the duration of quarantine might pose additional transmission risk. They should closely monitor these patients for development of symptoms and, if they occur, immediately implement appropriate Transmission-Based Precautions and viral testing. Patients should also be counseled about the importance of adhering to all recommended [non-pharmaceutical interventions \(such as hand hygiene, covering a cough or sneeze, etc.\)](#).

#### **A. Establish Reporting within and between Healthcare Facilities and to Public Health Authorities**

- Implement mechanisms and policies that promote situational awareness for facility staff including infection control, healthcare epidemiology, facility leadership, occupational health, clinical laboratory, and frontline staff about patients with suspected or confirmed SARS-CoV-2 infection and facility plans for response.
- Communicate and collaborate with public health authorities. Facilities should designate specific persons within the healthcare facility who are responsible for communication with public health officials and dissemination of information to HCP, patients and visitors.

#### **B. Patient Placement**

- For patients with COVID-19 or other respiratory infections, evaluate need for hospitalization. If hospitalization is not medically necessary, home care is preferable.
- If admitted, place a patient with suspected or confirmed SARS-CoV-2 infection in a single-person room with the door closed. The patient should have a dedicated bathroom.
  - Airborne Infection Isolation Rooms (AIIRs) (See definition of AIIR in appendix) should be reserved for patients who will be undergoing aerosol generating procedures (See Aerosol Generating Procedures Section).
- Personnel entering the room should use PPE as described below in Section M.
- As a measure to limit HCP exposure and conserve PPE, facilities could consider designating entire units within the facility, with dedicated HCP, to care for patients with suspected or confirmed SARS-CoV-2 infection. Dedicated means that HCP are assigned to care only for these patients during their shift.
  - Determine how staffing needs will be met as the number of patients with suspected or confirmed SARS-CoV-2 infection increases and if HCP become ill and are excluded from work.



- It might not be possible to distinguish patients who have COVID-19 from patients with other respiratory viruses. As such, patients with different respiratory pathogens might be cohorted on the same unit. However, only patients with the same respiratory pathogen may be housed in the same room. For example, a patient with COVID-19 should ideally not be housed in the same room as a patient with an undiagnosed respiratory infection or a respiratory infection caused by a different pathogen.
- To the extent possible, patients with suspected or confirmed SARS-CoV-2 infection should be housed in the same room for the duration of their stay in the facility (e.g., minimize room transfers).
- Limit transport and movement of the patient outside of the room to medically essential purposes.
  - Whenever possible, perform procedures/tests in the patient's room.
  - Consider providing portable x-ray equipment in patient cohort areas to reduce the need for patient transport.
- Communicate information about patients with suspected or confirmed SARS-CoV-2 infection to appropriate personnel before transferring them to other departments in the facility (e.g., radiology) and to other healthcare facilities.
- Patients should wear well-fitting source control to contain secretions during transport. If patients cannot tolerate a facemask or cloth mask or one is not available, they should use tissues to cover their mouth and nose while out of their room.
- Once the patient has been discharged or transferred, HCP, including environmental services personnel, should refrain from entering the vacated room until sufficient time has elapsed for enough air changes to remove potentially infectious particles (more information on [clearance rates under differing ventilation conditions](#) is available). After this time has elapsed, the room should undergo appropriate cleaning and surface disinfection before it is returned to routine use.

### C. Personal Protective Equipment

HCP who enter the room of a patient with suspected or confirmed SARS-CoV-2 infection should adhere to [Standard Precautions](#) and use a NIOSH-approved N95 or equivalent or higher-level respirator, gown, gloves, and eye protection.

CDC has provided strategies for [Optimizing Personal Protective Equipment \(PPE\) Supplies](#) that include a hierarchy of strategies to implement when PPE are in short supply or unavailable (e.g., use of a respirator approved under standards used in other countries that are similar to NIOSH-approved N95 filtering facepiece respirators or a well-fitting facemask when NIOSH-approved N95 or equivalent or higher-level respirators are not available).

NIOSH-approved N95 or equivalent or higher-level respirators are preferred; when shortages exist, they should be prioritized for situations where respiratory protection is most important and the care of patients with pathogens requiring Airborne Precautions (e.g., tuberculosis, measles, varicella). Information about the recommended duration of Transmission-Based Precautions is available in [PA-HAN-554](#).

#### • Hand Hygiene

- HCP should perform hand hygiene before and after all patient contact, contact with potentially infectious material, and before putting on and after removing PPE, including gloves. Hand hygiene after removing PPE is particularly important to remove any pathogens that might have been transferred to bare hands during the removal process.

- HCP should perform hand hygiene by using ABHS with 60-95% alcohol or washing hands with soap and water for at least 20 seconds. If hands are visibly soiled, use soap and water before returning to ABHS.
- Healthcare facilities should ensure that hand hygiene supplies are readily available to all personnel in every care location.
- **Personal Protective Equipment Training**  
Employers should select appropriate PPE and provide it to HCP in accordance with [OSHA PPE standards \(29 CFR 1910 Subpart I\)](#). HCP must receive training on and demonstrate an understanding of:
  - when to use PPE
  - what PPE is necessary
  - how to properly [don, use, and doff](#) PPE in a manner to prevent self-contamination
  - how to properly dispose of or disinfect and maintain PPE
  - the limitations of PPE

Respirators, when required to protect HCP from airborne contaminants such as some infectious agents, must be used in the context of a comprehensive, written respiratory protection program that meets the requirements of [OSHA's Respiratory Protection standard](#). The program should include medical evaluations, training, and fit testing.

Any reusable PPE must be properly cleaned, decontaminated, and maintained after and between uses. Facilities should have policies and procedures describing a recommended sequence for safely donning and doffing PPE.

The PPE recommended when caring for a patient with suspected or confirmed COVID-19 includes the following:

- **Respirator**
  - **Put on an N95 respirator (or equivalent or higher-level respirator) before entry into the patient room or care area**, if not already wearing one as part of extended use [strategies to optimize PPE supply](#). Other respirators include other disposable filtering facepiece respirators, powered air purifying respirators (PAPRs), or elastomeric respirators.
  - N95 respirators or respirators that offer a higher level of protection should be used when performing or present for an aerosol generating procedure. See appendix for respirator definition.
  - Disposable respirators should be removed and discarded after exiting the patient's room or care area and closing the door unless implementing extended use or reuse. Perform hand hygiene after removing the respirator or facemask.
    - If reusable respirators (e.g., powered air-purifying respirators [PAPRs] or elastomeric respirators) are used, they should also be removed after exiting the patient's room or care area. They must be cleaned and disinfected according to manufacturer's reprocessing instructions prior to re-use.
  - In certain facility types, specific Department PPE mandates regarding PPE may apply. Facilities must follow Department mandates, which presently include the wearing of an N95 or equivalent or higher-level respirator for HCP providing direct patient care to COVID-19 positive and suspected cases.
    - For long-term care facilities, reference the [August 17, 2020 Secretary's Order](#)
    - For acute care facilities, reference the [June 9, 2020 Secretary's Order](#)
- **Eye Protection**

- Put on eye protection (i.e., goggles or a face shield that covers the front and sides of the face) upon entry to the patient room or care area, if not already wearing as part of extended use [strategies to optimize PPE supply](#).
  - Protective eyewear (e.g., safety glasses, trauma glasses) with gaps between glasses and the face likely do not protect eyes from all splashes and sprays.
- Ensure that eye protection is compatible with the respirator so there is not interference with proper positioning of the eye protection or with the fit or seal of the respirator.
- Remove eye protection after leaving the patient room or care area, unless implementing extended use.
- Reusable eye protection (e.g., goggles) must be cleaned, disinfected and dry according to manufacturer's reprocessing instructions prior to re-use. Disposable eye protection should be discarded after use unless following protocols for extended use or reuse.
- For extended use of eye protection, clean and disinfect reusable eye protection at the beginning and end of each shift, upon removal (e.g., to eat), and if visibly soiled. Discard disposable eye protection if visibly soiled.
- **Gloves**
  - Put on clean, non-sterile gloves upon entry into the patient room or care area.
    - Change gloves if they become torn or heavily contaminated.
  - Remove and discard gloves before leaving the patient room or care area, and immediately perform hand hygiene.
  - **Double gloving is not recommended when providing care to patients with suspected or confirmed SARS-CoV-2 infection.**
- **Gowns**
  - Put on a clean isolation gown upon entry into the patient room or area. Change the gown if it becomes soiled. Remove and discard the gown in a dedicated container for waste or linen before leaving the patient room or care area. Disposable gowns should be discarded after use unless following protocols for extended use or reuse. Cloth gowns should be laundered after each use.
  - **In general, HCP caring for patients with suspected or confirmed SARS-CoV-2 infection should not wear more than one isolation gown at a time.**

Facilities with a critical need for PPE supply, who have exhausted other supply chain avenues of obtaining PPE, should submit a request for PPE fulfillment to the Department through their routine procedure.

#### **D. Aerosol Generating Procedures (AGPs)**

- Some procedures performed on patients with suspected or confirmed SARS-CoV-2 infection could [generate infectious aerosols](#). Procedures that pose such risk should be performed cautiously and avoided if possible.
- If performed, the following should occur:
  - HCP in the room should wear an N95 or equivalent or higher-level respirator, eye protection, gloves, and a gown.
  - The number of HCP present during the procedure should be limited to only those essential for patient care and procedure support. Visitors should not be present for the procedure.
  - AGPs should ideally take place in an AIIR.
  - Clean and disinfect procedure room surfaces promptly as described in the section on environmental infection control below.

## **E. Collection of Diagnostic Respiratory Specimens**

- When collecting [diagnostic respiratory specimens](#) (e.g., nasopharyngeal or nasal swab) from a patient with possible SARS-CoV-2 infection, the following should occur:
  - Specimen collection should be performed in a normal examination room with the door closed.
  - HCP in the room should wear an N95 or equivalent or higher-level respirator, eye protection, gloves, and a gown.
  - If respirators are not readily available, they should be prioritized for other procedures at higher risk for producing infectious aerosols (e.g., intubation), instead of for collecting diagnostic respiratory specimens. The number of HCP present during the procedure should be limited to only those essential for patient care and procedure support. Visitors should not be present for specimen collection.
  - Clean and disinfect procedure room surfaces promptly as described in the section on environmental infection control below.

## **F. Manage Visitor Access and Movement Within the Facility**

- Limit visitors to the facility to only those essential for the patient's physical or emotional well-being and care (e.g., care partner, parent).
- Encourage use of alternative mechanisms for patient and visitor interactions such as video-call applications on cell phones or tablets.
- If visitation to patients with SARS-CoV-2 infection occurs, visits should be scheduled and controlled to allow for the following:
  - Facilities should evaluate risk to the health of the visitor (e.g., visitor might have underlying illness putting them at higher risk for COVID-19) and ability to comply with precautions.
  - Facilities should provide instruction, before visitors enter patients' rooms, on hand hygiene, limiting surfaces touched, and use of source control according to current facility policy while in the patient's room.
  - Visitors should not be present during AGPs or other procedures.
  - Visitors should be instructed to only visit the patient room. They should not go to other locations in the facility.

## **G. Environmental Infection Control**

- Dedicated medical equipment should be used when caring for patients with suspected or confirmed SARS-CoV-2 infection.
  - All non-dedicated, non-disposable medical equipment used for patient care should be cleaned and disinfected according to manufacturer's instructions and facility policies between each patient.
- Ensure that environmental cleaning and disinfection procedures are followed consistently and correctly.
- Routine cleaning and disinfection procedures (e.g., using cleaners and water to pre-clean surfaces prior to applying an EPA-registered, hospital-grade disinfectant to frequently touched surfaces or objects for appropriate contact times as indicated on the product's label) are appropriate for SARS-CoV-2 in healthcare settings, including those patient-care areas in which aerosol generating procedures are performed.
  - Refer to [List N](#) on the EPA website for EPA-registered disinfectants that have qualified under EPA's emerging viral pathogens program for use against SARS-CoV-2.
- Management of laundry, food service utensils, and medical waste should also be performed in accordance with routine procedures.

- Additional information about recommended practices for terminal cleaning of rooms and PPE to be worn by environmental services personnel is available in the [Healthcare Infection Prevention and Control FAQs for COVID-19](#)
- **Additional information about cleaning and disinfecting environmental surfaces, including guidance on additional technologies (e.g., ultraviolet germicidal irradiation, electrostatic sprayers or foggers) is available in the CDC [FAQs addressing environmental cleaning and disinfection](#).**

## **APPENDIX: ADDITIONAL INFORMATION ABOUT AIRBORNE INFECTION ISOLATION ROOMS, RESPIRATORS AND FACEMASKS**

Information about Airborne Infection Isolation Rooms (AIIRs):

- AIIRs are single-patient rooms at negative pressure relative to the surrounding areas, and with a minimum of 6 air changes per hour (12 air changes per hour are recommended for new construction or renovation).
- Air from these rooms should be exhausted directly to the outside or be filtered through a high-efficiency particulate air (HEPA) filter directly before recirculation.
- Room doors should be kept closed except when entering or leaving the room, and entry and exit should be minimized.
- Facilities should monitor and document the proper negative-pressure function of these rooms.

Information about Respirators:

- A respirator is a personal protective device that is worn on the face, covers at least the nose and mouth, and is used to reduce the wearer's risk of inhaling hazardous airborne particles (including dust particles and infectious agents), gases, or vapors. Respirators are certified by the CDC/NIOSH, including those intended for use in healthcare.
- Respirator use must be in the context of a complete respiratory protection program in accordance with OSHA Respiratory Protection standard ([29 CFR 1910.134](#)). HCP should be medically cleared and fit tested if using respirators with tight-fitting facepieces (e.g., a NIOSH-approved N95 respirator) and trained in the proper use of respirators, safe removal and disposal, and medical contraindications to respirator use.
- [NIOSH information about respirators](#)
- [OSHA Respiratory Protection eTool](#)
- [Strategies for Optimizing the Supply of N-95 Respirators](#)

Filtering Facepiece Respirators (FFR) including N95 Respirators

- A commonly used respirator in healthcare settings is a filtering facepiece respirator (commonly referred to as an N95). FFRs are disposable half facepiece respirators that filter out particles.
- To work properly, FFRs must be worn throughout the period of exposure and be specially fitted for each person who wears one. This is called "fit testing" and is usually done in a workplace where respirators are used.
- [Three key factors for an N95 respirator to be effective](#)
- FFR users should also perform a user seal check to ensure proper fit each time an FFR is used.
- Learn more about how to perform a [user seal check](#)
- A list of NIOSH-approved FFRs is located on the [NIOSH-Approved Particulate Filtering Facepiece Respirators List](#).

### **Elastomeric Respirators**

- NIOSH-certified reusable elastomeric particulate respirators provide at least the same level of protection as N95 FFRs, and some types of elastomeric respirators can offer higher assigned protection factors than N95 FFRs.
- Elastomeric respirators, such as half facepiece or full facepiece tight-fitting respirators where the facepieces are made of synthetic or natural rubber material, can be repeatedly used, cleaned, disinfected, stored and re-used. They are available as alternatives to disposable half mask filtering facepiece respirators (FFRs), such as N95 FFRs, for augmenting the total supply of respirators available for use by HCP.
- Elastomeric respirators have the same basic requirements for an OSHA-approved respiratory protection program as filtering facepiece respirators, including medical evaluation, training, and fit testing. However, they have additional maintenance requirements which include cleaning and disinfection of the facepiece components such as straps, valves, and valve covers.
- [Additional information about elastomeric respirators](#), including strategies during conventional and surge demand situation is available.

#### Powered Air Purifying Respirators (PAPRs)

- PAPRs have a battery-powered blower that pulls air through attached filters, canisters, or cartridges. They provide protection against gases, vapors, or particles, when equipped with the appropriate cartridge, canister, or filter.
- Loose-fitting PAPRs do not require fit testing and can be used with facial hair or for HCP who do not pass fit testing with other available respirators.
- A list of NIOSH-approved PAPRs is located on the [NIOSH Certified Equipment List](#).
- [Considerations for Optimizing the Supply of PAPRs](#)

#### Information about Facemasks:

- If worn properly, a facemask helps block respiratory secretions produced by the wearer from contaminating other persons and surfaces (often called source control).
- Surgical facemasks are cleared by the U.S. Food and Drug Administration (FDA) for use as medical devices. Facemasks should be used once and then thrown away in the trash.

#### DEFINITIONS:

**Healthcare Personnel (HCP):** HCP refers to all paid and unpaid persons serving in healthcare settings who have the potential for direct or indirect exposure to patients or infectious materials, including body substances (e.g., blood, tissue, and specific body fluids); contaminated medical supplies, devices, and equipment; contaminated environmental surfaces; or contaminated air. HCP include, but are not limited to, emergency medical service personnel, nurses, nursing assistants, physicians, technicians, therapists, phlebotomists, pharmacists, students and trainees, contractual staff not employed by the healthcare facility, and persons not directly involved in patient care, but who could be exposed to infectious agents that can be transmitted in the healthcare setting (e.g., clerical, dietary, environmental services, laundry, security, engineering and facilities management, administrative, billing, and volunteer personnel).

**Source control:** Use of well-fitting cloth masks, facemasks, or respirators to cover a person's mouth and nose to prevent spread of respiratory secretions when they are breathing, talking, sneezing, or coughing. Cloth masks, facemasks, and respirators should not be placed on children under age 2, anyone who cannot wear one safely, such as someone who has a disability or an underlying medical condition that precludes wearing a cloth mask, facemask, or respirator safely, or anyone who is

unconscious, incapacitated, or otherwise unable to remove their cloth mask, facemask, or respirator without assistance. Face shields alone are not recommended for source control.

**Cloth mask:** Textile (cloth) covers that are intended primarily for source control in the community. **They are not personal protective equipment (PPE) appropriate for use by healthcare personnel as the degree to which cloth masks protect the wearer might vary.** Guidance on design, use, and maintenance of cloth masks is [available](#).

**Facemask:** Facemasks are PPE and are often referred to as surgical masks or procedure masks. Use facemasks according to product labeling and local, state, and federal requirements. FDA-cleared surgical masks are designed to protect against splashes and sprays and are prioritized for use when such exposures are anticipated, including surgical procedures. Facemasks that are not regulated by FDA, such as some procedure masks, which are typically used for isolation purposes, may not provide protection against splashes and sprays.

**Respirator:** A respirator is a personal protective device that is worn on the face, covers at least the nose and mouth, and is used to reduce the wearer's risk of inhaling hazardous airborne particles (including dust particles and infectious agents), gases, or vapors. Respirators are certified by the CDC/NIOSH, including those intended for use in healthcare. Refer to the Appendix for a summary of different types of respirators.

**Minimal to no community transmission of SARS-CoV-2:** For the purposes of this guidance, a county positivity rate less than 5% is considered minimal to no community transmission. Facilities can use rates published by [CMS](#) or [PA DOH](#), but must use the same source every week as defined in their policy.

**Moderate to sustained community transmission:** For the purposes of this guidance, a county positivity rate of 5% or more is considered moderate to sustained community transmission. Facilities can use rates published by [CMS](#) or [PA DOH](#), but must use the same source every week as defined in their policy.

Categories of Health Alert messages:

**Health Alert:** conveys the highest level of importance; warrants immediate action or attention.

**Health Advisory:** provides important information for a specific incident or situation; may not require immediate action.

**Health Update:** provides updated information regarding an incident or situation; unlikely to require immediate action.

This information is current as of April 9, 2021 but may be modified in the future. We will continue to post updated information regarding the most common questions about this subject.