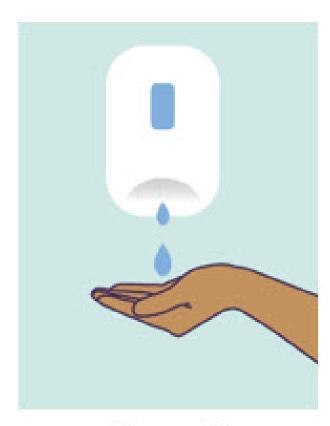
Personal Protective Equipment and Precautions Staff Training

Healthcare-Associated Infections Program
Center for Health Care Quality
California Department of Public Health



Infection Prevention Strategies: Back to Basics



Hand Hygiene



Cleaning and Disinfection



Sequence for Donning PPE

Perform hand hygiene before donning PPE.

- 1. Gown
- 2. Mask or respirator
- 3. Goggles or face shield
- 4. Gloves



How to Don a Gown

- Select appropriate type and size
- Opening is in the back
- Secure at neck and waist
- If gown is too small, use two gowns
 - Gown #1 ties in front
 - Gown #2 ties in back



How to Don a Mask

- Place over nose, mouth, and chin
- Fit flexible nose piece over nose bridge
- Secure on head with ties or elastic
- Adjust to fit



How to Don a Respirator

- Select a fit tested respirator, preferably
- Place over nose, mouth, and chin
- Fit flexible nose piece over nose bridge
- Secure on head with elastic
- Adjust to fit
- Perform a fit check
 - Inhale respirator should collapse
 - Exhale check for leakage around face





How to Don Eye and Face Protection

- Position goggles over eyes and secure to the head using the ear pieces or headband
- Position face shield over face and secure on brow with headband
- Adjust to fit comfortably

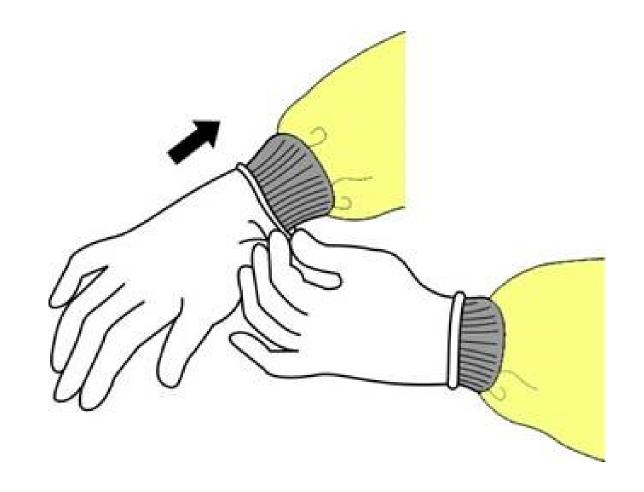






How to Don Gloves

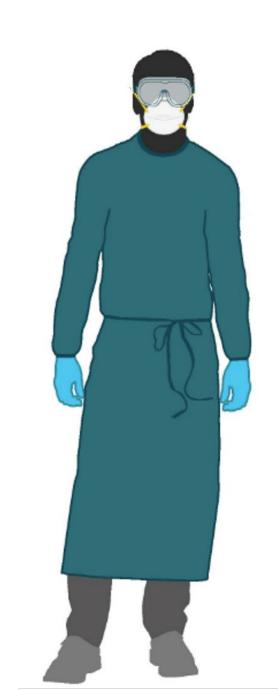
- Don gloves last
- Select correct type and size
- Insert hands into gloves
- Extend gloves over isolation gown cuffs





Use Safe PPE Practices

- Keep gloved hands away from face
- Avoid touching or adjusting other PPE
- Remove gloves if they become torn; perform hand hygiene before donning new gloves
- Limit surfaces and items touched



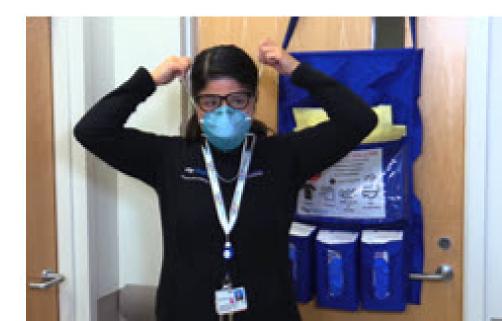
Remove PPE in Appropriate Areas

- At doorway, before leaving patient room or in anteroom
- Remove respirator outside room, after door has been closed*

- -*Ensure hand hygiene supplies are available at the points needed, either a sink or alcoholbased hand rub
- UCSF Health PPE Donning and Doffing

(https://www.youtube.com/watch?v=-sBNxli21n0&feature=emb_title)





Safely Remove PPE

- Recognize the "Contaminated" and "Clean" areas of PPE
- Contaminated
 - PPE areas likely to have been in contact with body sites, materials, or surfaces with infectious organisms
 - Includes the outside and front of PPE
- Clean
 - PPE areas that are not likely to have been in contact with the infectious organism
 - Includes the inside and the outside back of PPE

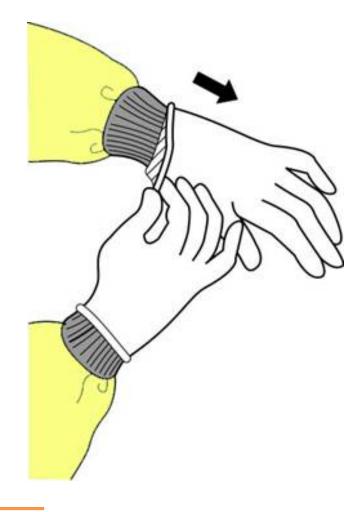


Sequence for Removing PPE

- 1. Remove gloves*
 - Perform hand hygiene
- 2. Remove gown*
 - Perform hand hygiene
- 3. Remove face shield/ goggles
 - Perform hand hygiene
- 4. Remove mask or respirator
 - Perform hand hygiene
 - -* Gown and gloves may be removed together.



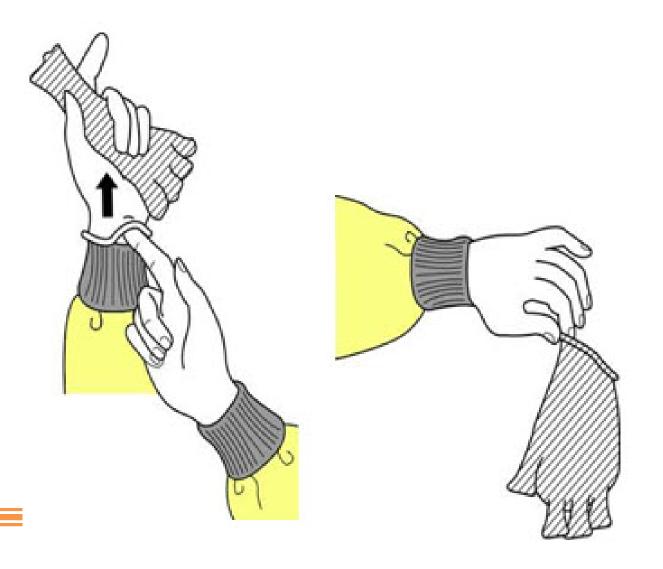
How to Remove Gloves (Method 1)



- **Step 1:** Grasp outside edge near wrist
- **Step 2:** Peel away from hand, turning glove inside-out
- Step 3: Hold in opposite gloved hand



How to Remove Gloves (Method 1), continued

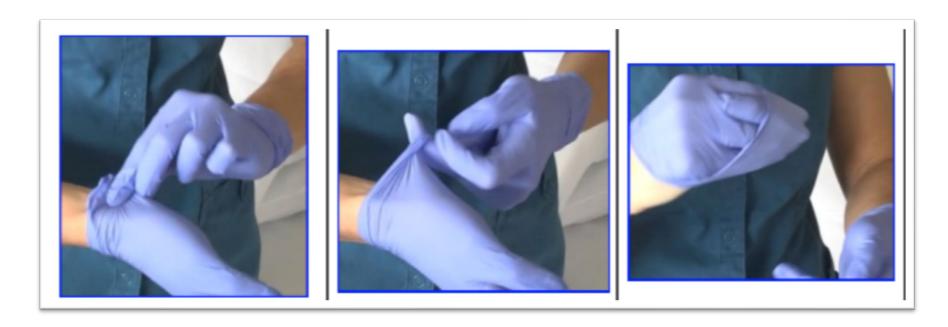


- Step 4: Slide ungloved finger under the wrist of the remaining glove
- **Step 5:** Peel off from inside, creating a bag for both gloves
- Step 6: Discard
- •Always perform hand hygiene after glove removal.



How to Remove Gloves (Method 2 - Beak)

- Step 1: Using one gloved hand, pinch and pull the base of the other gloved hand.
- Step 2: Use the middle finger to scoop the cuff of the glove.
- Step 3: Pull the glove inside out over all the fingers and thumb to form a "beak."





How to Remove Gloves (Method 2 - Beak), continued

- Step 4: With the beaked hand, pinch the opposite glove at the base and pull the cuff.
- Step 5: Roll the glove inside out and off the hand.
- **Step 6:** With the ungloved hand, use the index finger to pull the beaked glove off at the base of the beak and dispose into the appropriate waste container.

Always perform hand hygiene after glove removal.









How to Remove Isolation Gown



- Unfasten ties
- Peel gown away from neck and shoulder
- Turn contaminated outside toward the inside
- Fold or roll into a bundle
- Discard
- Perform hand hygiene



How to Remove Gown and Gloves Together

- With gloved hands, grasp gown in front
- Pull gown away from body so ties break
- Fold or roll into a bundle; peel off gloves at same time
- Discard
- Perform hand hygiene



How to Remove Goggles or Face Shield





- Grasp ear or head pieces with ungloved hands
- Lift away from face
- Place in designated receptacle for reprocessing or disposal



How to Remove a Respirator

- Remove outside the room or in the ante-room
- Lift the bottom elastic over your head first
- Then lift off the top elastic
- Discard

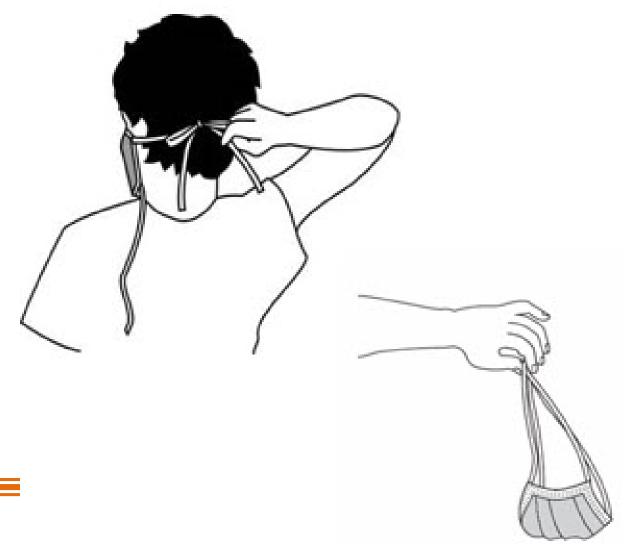
CDC PPE Sequence (PDF)

(https://www.cdc.gov/hai/pdfs/ppe/PPE-Sequence.pdf)





How to Remove a Tied Facemask

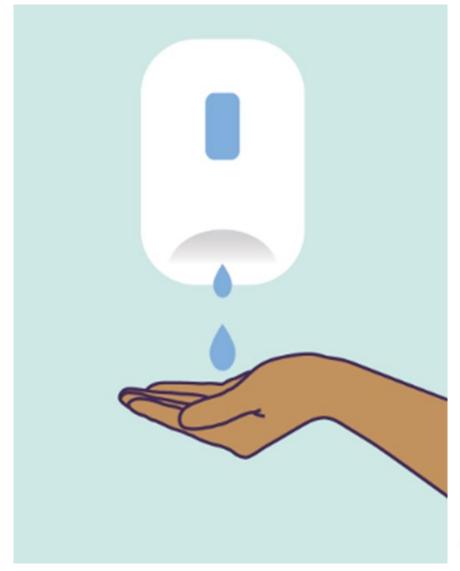


- Remove at least 6 feet away from the patient, e.g. at the door
- Untie the bottom, then top, tie
- Remove from face
- Discard



Perform Hand Hygiene After Removing PPE

- Perform hand hygiene immediately after removing PPE and preferably after each step
- Use alcohol-based hand rub or wash with soap and water
 - Exception: If hands become visibly contaminated during PPE removal, wash hands with soap and water before continuing PPE removal





Summary

- Select and use the appropriate personal protective equipment (PPE) as required
- Educate all healthcare workers on the PPE donning and doffing process.
- PPE should be used in a safe manner to avoid self and cross contamination.
- Perform hand hygiene before donning and after each step of PPE removal.

