Personal protective equipment (PPE), putting on, AU

Reviewed: November 15, 2019

■ Introduction

Standard and transmission-based precautions help prevent the spread of infection from patient to patient, from patients to health care workers, and from health care workers to patients. They also help reduce the risk of infection in immunocompromised patients.

Central to the success of these precautions is selecting the proper personal protective equipment (PPE), such as gowns, gloves, masks, and eye protection, as well as adequate training of those who use it.

◆ Clinical alert: Please refer to the latest recommendations from the Australian Government Department of Health's Information for Health Professionals, including infection prevention and control principles and information for clinicians when caring for a patient with known or suspected Ebola virus disease.

■ Equipment

Materials required for standard and transmission-based precautions typically include PPE, a trolley or anteroom for storing equipment, and a door card or sign to alert staff members and others entering the room that transmission-based precautions are in effect.

Personal protective equipment:

• Fluid-resistant gown

• Gloves

• Goggles or face shield

• Mask or respirator (each staff member must be trained in its proper use)

■ Preparation of Equipment

Remove the cover from the isolation trolley, if necessary, and set up the work area. Check the trolley or anteroom to make sure adequate amounts of the proper supplies are available for the designated transmission-based precautions category.

■ Implementation

• Remove your watch, rings and bracelets. These actions help prevent the spread of microorganisms that may be hidden under these items.

• Perform hand hygiene.

• Pick up the fluid-resistant gown and allow it to unfold in front of you without touching areas of your body that may be contaminated, to minimise the transmission of microorganisms.

• Put on the gown and wrap it around the back of your uniform, making sure it overlaps and completely covers your uniform to prevent contact with the patient and the patient’s environment. Tie the strings or fasten the snaps or pressure-sensitive tabs at the neck. Then tie the waist strings.

• Place the mask snugly over your nose and mouth and below your chin. Secure the ear loops around your ears or tie the strings at the middle of the back of your head and neck so that the mask won’t slip off. If the mask has a metal nose strip, squeeze it to fit your nose firmly but comfortably. (See Putting on a face mask) If you wear glasses, tuck the upper edge of the mask under the lower edge of the glasses to minimise the likelihood of clouding your glasses.

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EQUIPMENT

PUTTING ON A FACE MASK

Put on a face mask to avoid exposure to infectious agents and potentially infectious blood or body fluids. Position the mask to cover your nose and mouth, and secure it high enough to ensure stability. Tie the top strings at the back of your
head above the ears. Then tie the bottom strings at the base of your neck, as shown below. Alternatively, if the face mask has ear loops, secure them around your ears.  

Adjust the metal nose strip if the mask has one, as shown below.

- Choose eye protection according to your risk of exposure. Although goggles provide eye protection, they don't protect the rest of the face from splashing of potentially infectious substances. Wear a face shield for any procedures that may involve spraying or splashing of respiratory secretions or other body fluids.

- Select gloves according to your hand size to make sure they fit securely. Put on the gloves and pull them over the cuffs of your gown to cover the edges of the gown's sleeves.

## Special Considerations
• If you require airborne precautions, wear an N95 or higher-level particulate respirator approved by the Occupational Safety and Health Administration, rather than a surgical mask. (See the "Airborne precautions" procedure.) Employees who wear respirators must undergo proper fit-testing initially, then periodically thereafter, according to federal, state, and local regulations.

• If your respirator device is reusable, retain it for further personal use unless it's contaminated or damaged or fails to form a good seal. Store it as directed by your health care facility. Re-use of respiratory protection may consist of removing and putting on the device again between patient encounters. To avoid a transmission risk, adhere to stringent hand hygiene before and after handling the respiratory protection device.

• Always perform hand hygiene before putting on gloves to avoid contaminating the gloves with microorganisms from your hands.

• Use gloves only once. If a glove tears, remove it, perform hand hygiene, and put on a new pair of gloves.

• Be aware that personal protective equipment loses its effectiveness when wet because moisture permits organisms to seep through the material. Change masks and gowns as soon as moisture is noticeable or according to the manufacturer's recommendations or your facility's guidelines.

• Keep personal protective equipment and other isolation precaution supplies stocked so they're readily available for those who must enter the patient's room.

**Documentation**

None needed.

*This procedure has been endorsed by the Australian College of Nursing.*

**Australian College of Nursing**

**Related Procedures**

- Hazardous drug preparation and handling
- Hazardous drug spill management
- Personal protective equipment (PPE), putting on, ambulatory care
- Personal protective equipment (PPE), removal, ambulatory care
- Personal protective equipment (PPE), removal, AU

**References**

(Rating System for the Hierarchy of Evidence for Intervention/Treatment Questions)


### Additional References


### Rating System for the Hierarchy of Evidence for Intervention/Treatment Questions

The following leveling system is from *Evidence-Based Practice in Nursing and Healthcare: A Guide to Best Practice (2nd ed.)* by Bernadette Mazurek Melnyk and Ellen Fineout-Overholt.

- **Level I**: Evidence from a systematic review or meta-analysis of all relevant randomized controlled trials (RCTs)
- **Level II**: Evidence obtained from well-designed RCTs
- **Level III**: Evidence obtained from well-designed controlled trials without randomization
- **Level IV**: Evidence from well-designed case-control and cohort studies
- **Level V**: Evidence from systematic reviews of descriptive and qualitative studies
- **Level VI**: Evidence from single descriptive or qualitative studies
- **Level VII**: Evidence from the opinion of authorities and/or reports of expert committees