



# DOUBLE GLOVING USING CLOSED SELF-DONNING TECHNIQUE FOR STERILE SURGICAL GLOVES

## WHY DOUBLE GLOVE?

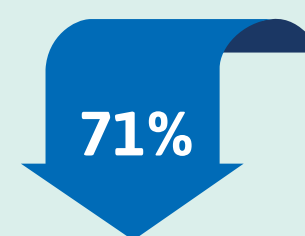
Double gloving is the recommended best practice to provide an additional layer of protection against the risk of glove microperforations and potential pathogen exposure.<sup>1,2</sup>



Surgical performance including dexterity and tactile sensation is not compromised when the appropriate glove and size are chosen<sup>3</sup>



Wearing a colored inner glove increases the identification of perforations by as much as 86%<sup>4</sup>



Double gloving reduces glove perforations by 71% compared to single gloving<sup>5</sup>

## CLOSED SELF-DONNING STEPS



- 1** After performing surgical hand antisepsis and donning the surgical gown, follow the recommended closed gloving method:
- Keep hands completely covered by the gown sleeve
  - Unfold the glove packet so 'L' and 'R' is visible and placed accordingly
  - Open the inner wrap by grasping the inner folds and pulling outwards



- 2** With hands still covered by the gown, use the opposite hand and pick up the glove by grasping the folded cuff edge.



- 3** Place glove with writing-side down with fingers pointing up the arm. Using your thumb, grasp the underside of the glove cuff, and with your opposite hand, grab the edge of the glove cuff.



- 4** Pull and stretch the glove over the covered hand so that it covers the cuff entirely.



- 5** Pull the gown sleeve and glove cuff together so that the fingers straighten and fill the glove.



- 6** The gloved hand is then used to repeat the procedure for the ungloved hand.



- 7** With the undergloves donned, attend to finer glove adjustments and inspection for visible perforations.
- To ensure comfort and maintaining asepsis:
- The glove cuffs completely cover the gown cuffs with no bunching/folds
  - There is adequate length of glove cuff on the glove sleeve to provide grip



- 8** Now don the outer gloves. Open the inner wrap and pick up the gloves by slipping gloved fingers under opposite inner hand cuffs.



- 9** AORN recommends that scrub members change their gloves every **60-150** minutes.<sup>1</sup> If a perforation occurs in the top glove, changing both layers of gloves may be needed in case of a corresponding breach.

### References:

1. Association of Perioperative Registered Nurses. (AORN). Guideline for sterile technique: Guidelines for Perioperative Practice. Denver, CO: AORN, Inc; 2024.
2. Association of Perioperative Registered Nurses. (AORN). Guideline for sharps safety: Guidelines for Perioperative Practice. Denver, CO: AORN, Inc; 2023.
3. Fry DE, Harris WE, Kohnke EN, Twomey CL. Influence of double-gloving on manual dexterity and tactile sensation of surgeons. *J Am Coll Surg.* 2010;210(3):325-330.
4. Tanner J, Parkinson H. Double gloving to reduce surgical cross-infection. *Cochrane Database Syst Rev.* 2006;2006(3):CD003087. Published 2006 Jul 19.
5. Mischke C, Verbeek JH, Saarto A, Lavoie MC, Pahwa M, Ijaz S. Gloves, extra gloves or special types of gloves for preventing percutaneous exposure injuries in healthcare personnel. *Cochrane Database Syst Rev.* 2014;2014(3):CD009573. Published 2014 Mar 7.

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