

Standard Work: Donning Level 2 PPE (PAPR)

Author: Ryan A. Thatcher MSN in conjunction with Corewell Health Infection Preventionists from East, South and West entities.

Revision Date: 07/11/2024



Purpose: Doffing Level 2 PPE (PAPR)

Outline for doffing the PPE required for level 2 precautions. This ensemble is considered comparable to Level 1 PPE.


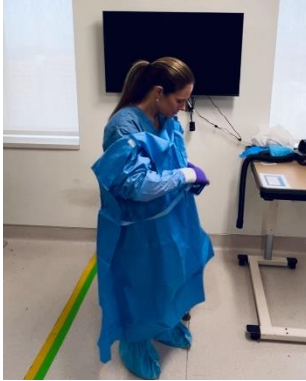

Value Stream: Special Pathogen Unit (SPU)

The Corewell Health Special Pathogen Unit is located on 9C at Butterworth. All PPE outlined in this SW may not be available to team members outside of the SPU.

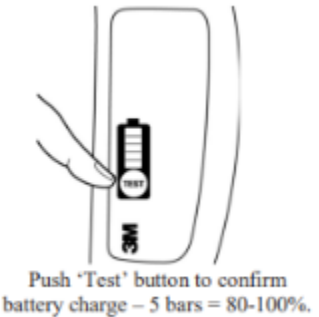
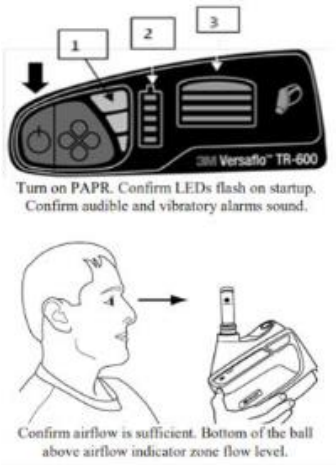

Introduction: The donning process is conducted under the guidance and supervision of a Hot Zone Boss (HZB), who confirms visually that all PPE is serviceable and has been donned successfully. The Hot Zone Boss uses verbal commands and this written checklist to verify each step-in donning PPE. The person donning will acknowledge each command given by the HZB as a confirmatory indication of their understanding of the step. The trained HZB may assist in the donning process, as required.

Seq. No	Task Description:	Key Point / Image / Measure (what good looks like)	Who	Check
1.	Prepare for donning 1) Hydrate (min. 8 oz) 2) Remove all jewelry, phones, pagers, badges, etc. 3) Dress in hospital scrubs, socks, shoes 4) Bring clean scrubs/clothes for after doffing and showering. 5) Use restroom 6) Acquire PPE: Knee-high shoe covers, Face Shield, PAPR (Shroud, hose, battery, motor, and filter), Impervious Level 4 Surgical Gown, Plastic Gown, Inner Gloves, Outer Gloves, and Patient Care Gloves. 7) Perform Hand Hygiene	<p>Team member should prepare for up to 4 hours in level 2 PPE. Every item that enters the patient care area should be considered disposable. Do NOT take any item into the HOT zone that you are not willing to part with.</p>  <p>The health and safety of team members is imperative to successful care of patients with special pathogens.</p>	Special Pathogen Response Team Member	
2.	Don knee high shoe covers Choose a size (regular or XL) that will extend to or above the top of the calf.		Special Pathogen Response Team Member	

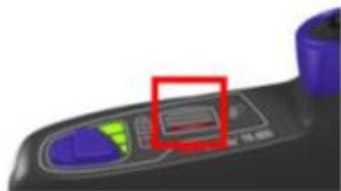


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3.	Don inner gloves Apply first pair of single-use examination gloves with extended cuffs.		Special Pathogen Response Team Member	
4.	Don impervious gown The gown should be tied at the hip where it can be easily untied without contamination of clothing. The gown should overlap in the back covering all visible clothing on shoulders, back, and extend to knee length. *Do not allow straps to wrap around the front of waist.		Special Pathogen Response Team Member	
5.	Inspect PAPR parts for proper operation <ol style="list-style-type: none"> 1) Motor/blower: Inspect for cracks, holes, damage to user interface panel and belt attachments. 2) Battery pack: Confirm case is intact. Press TEST button on pack to confirm charge is sufficient for duration of the work period. 3) Breathing tube: Examine breathing tube for tears, holes, or cracks. Bend the tube to verify that it is flexible and not showing signs of wear. Ensure the O-rings located at both ends of the breathing tube are present and intact. 4) Filter/cartridge: Closely inspect filter/cartridge plastic housing including the corners and latches, outer rectangular barrier, and inner circular filter seal gasket 		Special Pathogen Response Team Member	



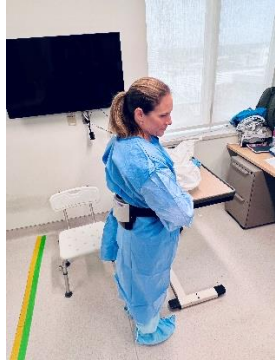
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	<p>for cracks, tears, cuts, distortion, indentations, or debris. Replace filter/cartridge if damaged. If the filter/cartridge has been mishandled or dropped, re-inspect fully. If you have any concern, contact supervisor or 3M Technical Service for guidance.</p> <p>5) Verify filter is not expired.</p> <p>6) Headgear: Inspect the headgear for tears, cuts, loose stitching, cracks, discoloration, or other signs of damage.</p> <p>7) If a damaged part is found, take out of service, and do NOT use.</p>			
6.	<p>Perform PAPR flow check</p> <ol style="list-style-type: none"> 1) Insert air flow indicator TR-971 into the outlet on the VERSAFLO motor/blower unit. 2) Start motor/blower. Run for 1 minute. 3) With the airflow indicator TR-971 in a vertical position, the bottom of the floating ball must be at, or above, the minimum flow level indicated on airflow indicator chart for your 'zone'. If not above minimum level, respirator system must not be used until evaluated and repaired. <ul style="list-style-type: none"> • Average Mi altitude is 900ft/270m 	 	Special Pathogen Response Team Member	


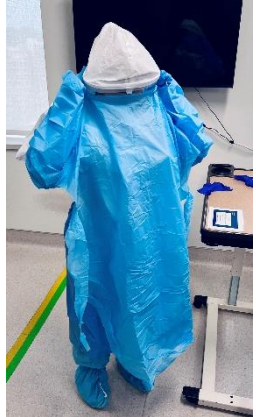

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7.	Perform Low Flow Alarm Test <ol style="list-style-type: none"> 1) Check the low airflow alarm by simulating a low airflow condition with the motor/blower on. 2) Remove the airflow indicator and tightly cover the outlet of the motor/blower with the palm of your hand. The motor should automatically speed up, attempting to compensate for the low airflow condition. 3) Continue to press your palm tightly against the end of the outlet, making a tight seal. 4) TR-600: In less than approx. 30 seconds, the unit will sound an audible and vibratory alarm, and the bottom bar on the filter loading/low flow indicator will flash red. 5) TR-300+: In less than 30 seconds, the unit will sound an audible alarm and the red fan shape LED will flash. 6) Remove your hand from the outlet of the blower/motor. In less than approx. 30 seconds, the audible alarm and the flashing red LED should both stop when the motor returns to the selected speed. 	<p>TR-600</p>  <p>TR-300+</p>  <p>NOTE: If the low airflow alarm fails to sound, do not use the unit. Contact supervisor or 3M Technical Service.</p>	Special Pathogen Response Team Member	
8.	Assemble PAPR <ol style="list-style-type: none"> 1) Attach motor/blower to belt or backpack. 2) Insert the end of the breathing tube with the two small prongs into slots in the motor/blower air outlet. Twist the breathing tube ¼ turn to the right (clockwise) to lock. 3) Attach breathing tube to headgear. Push the QRS end of the breathing tube (blue pinch clip) onto the air inlet of the headgear. Headgear will secure with a distinct click. Gently pull to confirm a secure connection. 	 <p>Insert breathing tube into PAPR outlet. Inspect headtop for damage. Connect breathing tube to headtop. Don PAPR.</p>	Special Pathogen Response Team Member	


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9.	Select Desired Airflow and Don PAPR Blower Unit 1) Start motor/blower. 2) Secure blower belt around the waist with the motor resting above the buttock in the small of the back. 3) Ensure the belt is not too tight to restrict movement and not too loose to slip over hips.		Special Pathogen Response Team Member	
10.	Don PAPR 1) Place PAPR hood on head, drape shroud over shoulders to ensure proper coverage of hair, ears, and neck. 2) Conduct a visual inspection of the PAPR assembly to ensure all components are operational, assembled and worn correctly, and that no hair or skin is exposed below the hood/shroud.	 	Special Pathogen Response Team Member	

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11.	Don outer gloves (second pair of gloves) <ol style="list-style-type: none"> 1) Apply second pair of single-use examination gloves with extended cuffs. These gloves should be of a different color than the inner gloves. 2) Fully extend wrist portion of gloves to completely cover gown cuff. 3) Gloves should not be baggy. Do not tape gloves to gown 		Special Pathogen Response Team Member	
12.	Don Plastic Gown <ol style="list-style-type: none"> 1) Don arms in sleeves. 2) Gown should go OVER the PAPR shroud. 3) Securely fasten ties at back. <p>Application may take assistance from the Hot Zone Boss.</p>		Special Pathogen Response Team Member	
13.	<p>*If encountering infectious patient waste while providing care.</p> Don patient care gloves (third pair of gloves) <ol style="list-style-type: none"> 1) Apply a third pair of regular cuffed or long cuffed single-use examination gloves. These gloves should be of a different color than the inner (first pair) and outer gloves (second pair). 2) If patient care gloves become torn or soiled sanitize gloves and doff using the glove-in-glove technique taking care to not get any infectious waste on outer gloves. 3) Patient Care Glove Sanitization steps prior to removal: 		Special Pathogen Response Team Member	

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	<ol style="list-style-type: none"> Use an alcohol-based hand sanitizer that contains at least 60% alcohol. Put enough sanitizer on your gloves to cover all surfaces. Gloves should remain “wet” with sanitizer for at least 20 seconds. Do NOT rinse or wipe off the hand sanitizer before it is dry. <p>Don a new pair of Patient Care Gloves if needed for continued patient care.</p>			
14.	<p>Hot Zone Boss will verify adequate range of motion without breach to ensure proper fit and function of PPE.</p> <ol style="list-style-type: none"> Lift hands over head Turn around Bend forward Stretch arms out in front of body Squat (pretend to reach items on the floor) 		Hot Zone Boss & Special Pathogen Response Team Member	

References: [CDC](#), [NETEC](#), [MIOSHA-STD-1201](#)