

# **REQUIRED TRAINING FOR 3M VERSAFLOW TR-300 POWERED AIR PURIFYING RESPIRATOR (PAPR)**

## **1. HOW TO GET A PAPR:**

PAPR carts are to be available at any airborne precautions isolation room. If you need to request a PAPR cart for your unit, please enter it through Lawson. Use Lawson # 134826 to order PAPR cart from Distribution.

## **2. REASONS TO WEAR A PAPR:**

A PAPR cart is indicated for all patients under airborne precautions, or when a high hazard procedure is warranted, for patients on airborne and/or droplet precautions (P&P 2002). Note, High Hazard Procedures include but are not limited to suctioning (except closed circuit suctioning and oral suctioning), sputum induction, bronchoscopy, aerosolized administration of medications, pulmonary function testing, autopsy, and clinical, surgical and laboratory procedures that may aerosolize pathogens.

## **3. CONSEQUENCES OF IMPROPER USE OR MAINTENANCE:**

If the PAPR is used improperly used or not maintained it can reduce the protective ability of the respirator.

## **4. LIMITATIONS OF A PAPR:**

This will not protect you from odors, chemical gases or vapors in the air. It will only protect against inhaling particulates (bacteria and viruses, both free living and attached to particulates). Chemicals like ammonia, chlorine, organic vapors will pass through the filter in this respirator – you will not be protected from these. The PAPR will not provide increased oxygen, it only filters the air around you and does not control the oxygen level you inhale, and you may not use it in a low oxygen environment.

## **5. INSPECTION AND DONNING:**

- a. Inspection: Inspect the hood and breathing tube for tears, cracks, flexibility, and visibility through hood face shield. Attach the battery to turbine until you hear an audible click, then give the battery a tug to ensure it is attached. Check that the turbine unit is intact and not loose. Perform an air flow check before first use in shift with air flow indicator and any time a low air flow is suspected. The float on the air flow indicator should be at or above the letter "G"
- b. Donning:
  - i. Check for additional isolation precautions. If a gown is required, place the PAPR on the small of the back, the gown should not cover the air intake of the PAPR.
  - ii. Obtain a PAPR turbine with a belt, a headcover, and breathing tube from the PAPR cart located next to the room and follow the steps for set up on the quick start guide.
  - iii. Turn the PAPR on by pressing the blue button on the top of the PAPR turbine.
  - iv. Place belt with PAPR on waist, tighten as necessary, making sure the PAPR unit is on the small of the back.
  - v. Don headcover by placing head inside the head band and pull the front of the headcover below your chin.

## **6. DISINFECTION AND DOFFING:**

a. Disinfection: Clean the hood, breathing tube, belt and turbine with battery attached with a disinfectant solution wipe after each entry into the room and prior to returning items to the PAPR cart.

For patients with:

Suspect/ Confirmed TB	Oxivir Tb Wipes	5-minute contact time
Other Airborne organisms	Oxivir Tb Wipes	1-minute contact time
Contact Enteric <u>and</u> Airborne Precautions	Clorox Wipes	3-minute contact time, allow parts to dry; follow with a clean damp cloth to remove residue

b. Doffing:

- i. Remove and discard gown (if applicable), gloves, perform hand hygiene and don a new pair of gloves.
- ii. Wipe exterior of headcover with disinfectant while the headcover is on your head.
- iii. Remove headcover by grasping the breathing tube where it is connected to the headcover with one hand, pull the breathing tube with the headcover forward and away from your face in one motion.
- iv. Remove from the breathing tube and disinfect the outside of headcover with an approved hospital disinfectant. Use a new wipe to disinfect the inside of the headcover.
- v. Remove PAPR turbine from waist and wipe down breathing tube, turbine with battery attached and belt with a disinfectant.
- vi. Remove gloves.
- vii. Detach battery and return headcover, breathing tube, battery, turbine with belt to the appropriate location on cart once dry.

**NOTE:** *Do not get the connection point of the battery or turbine wet. Please wipe down the connection point with a dry cloth. Return the battery to the charger once it is completely dry.*

## **7. MAINTENANCE AND STORAGE:**

a. Maintenance: All maintenance and repairs are performed by Central Processing or Clinical Engineering. If you notice something wrong with a PAPR, please sequester the item and notify Central Processing and/or Clinical Engineering, and give them the UCDH serial number on the back of the turbine to identify which unit is not working properly. Central Processing or Clinical Engineering will oversee the process of getting repaired.

b. Storage: When staged for use, storage in the anteroom when is acceptable. Please label your headcover with masking tape if you plan to reuse your PAPR during your shift. At the end of the shift please disinfect and place back into the PAPR cart. The PAPR gives 12 hours of use on a full battery charge, please return the battery to the charger when finished.

## **8. PROCEDURES FOR MALFUNCTION OF A PAPR:**

Do not wear the PAPR if you suspect that there is any problem with it. If you are wearing the PAPR in the room and suspect any problem with its operation (strange sounds, sound of air flow stops), leave the area immediately and take it off. Report this to your supervisor, sequester the malfunctioning device (turbine and battery and any other involved parts), and notify Clinical Engineering and Central Processing (see above Maintenance Section)

## **9. MEDICAL SIGNS AND SYMPTOMS THAT MAY LIMIT USE:**

Claustrophobia; skin, eye or mouth irritation; breathing difficulty. Leave the area immediately, remove PAPR, and report to your Supervisor. Note, the parts do not contain latex.