

# Air-Mate™ High Efficiency Powered Air Purifying Respirator (PAPR)

## Staff Training Module



# Powered Air Purifying Respirators (PAPR)


- Reduce the risk of transmission of infectious agents spread by the airborne route
- Draw air through a high efficiency particle (HEPA) filter and blow filtered air up into the head covering
- Are only effective when they are operating in the positive pressure mode and they are fitted properly


# PAPRS should be used when

- Employees do not pass an N-95 Fit Test (performed by University Employee Health Care)
- The Program of Hospital Epidemiology (PHE) recommends the expanded use of PAPRs to prevent spread of particular infectious agents.

**AIRBORNE PRECAUTIONS**  
(IN ADDITION TO STANDARD)

**Patient Placement**  
Private room with negative air pressure  
Keep door closed

 **Mask**  
N95 respirator when entering the room for the following diseases known or suspected: PULMONARY TUBERCULOSIS, MEASLES (Rubeola) and VARICELLA (chickenpox)

 **Hand Hygiene**  
Perform hand hygiene with hospital-approved hand antiseptic  
Wash hands with soap and water if hands are visibly soiled

**Patient Transport**  
Transport for essential purposes only, and have patient wear a surgical mask

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# Before you wear a PAPR

- You MUST have medical clearance from the UEHC. (Routinely completed at annual TB Assessment)
- You MUST be trained. (by reading this module)
- These 2 conditions must be met to use the PAPR.



# Assembly



- Inspect the breathing tube and body of the blower unit for punctures, cracks or general wear
- Outside of Airborne Precaution area, insert the breathing tube (male end with pin) into the blower/filtration unit and twist clockwise to lock in place

# Flow Check



- Hold the free end of the breathing tube up by grasping the slotted connector and covering the slots of the connector with thumb and forefinger
- Hold the tube so that it is vertical and at eye level
- Drop the black, bullet-shaped airflow indicator (pointed end first) into the slotted connector
- Switch the unit on
- If the lower band on the indicator rises above the slotted connector edge, airflow is sufficient.
- If not, check the breathing tube, battery and filter
- If the unit still does not work, do not enter the area and contact your supervisor. **DO NOT** attempt to repair the unit

# Blower Unit

- Attach blower/filtration unit to waist using the nylon belt
- Tighten the nylon belt so that it sets comfortably at the waist



# Put on head cover



**Regular – MH09601**



**Large – MH09442**

- Obtain head coverings from Processed Stores
  - Regular Size – MH09601
  - Large Size – MH09442
- Inspect the head cover for damage.
- Push the slotted end of the breathing tube into the connector in the rear of the head cover until it snaps into place.
- Pull the head cover over your head and adjust it so the headband wraps around your head.
- Pull the elasticized edge of the face seal under your chin.
- Ensure that the unit is turned on

# Take off head cover & blower/filtration unit

- Remove the Air Mate HEPA System outside of the Airborne Precaution area.
- Disassemble the breathing tube from the headpiece by pulling apart at the snap connection.
- Twist the end of the breathing tube (that is attached to the blower/filtration unit) counterclockwise to separate the breathing tube from the blower/filtration unit.
- Wipe the blower/filtration unit and breathing tube with a soft cloth dampened with a hospital approved disinfectant to remove possible contamination.
- Perform hand hygiene.



# Reusing head covers

- The head covers may be reused by the same staff member on the same patient as long as it remains functional.
  - Store in a clean and dry place, labeled with user name
  - Do not store in the patient room
  - Inspect before and after each use and replace when soiled or integrity of head cover is disrupted.

# Next slide is a video

- Turn speaker volume up for audio.



# Watch Video Demonstration

(Double click on picture if video does not run within 5 seconds)



# Where to obtain a PAPR

- Contact:
  - Contact Processed Stores at 6-1784 to request a PAPR unit, accessories, and a PAPR hood.
  - Processed Stores personnel will deliver the PAPR set consisting of:
    - 1 PAPR
    - 1 airflow tester
  - The PAPR unit will be delivered in a plastic bag. Retain this bag and when the PAPR is no longer required, place the PAPR unit (discard hood), ***including*** the airflow tester in it and place in soiled utility area for return to Central Sterilizing Services for cleaning /disinfection.

# Warning

- Head covering contains natural rubber latex.
  - DO NOT USE if you or the patient has a latex allergy.
- If the airflow ceases, reduces, or suddenly increases, leave the work area immediately and check the head cover, breathing tube, and blower/filtration unit for faults.
- Do not use in oxygen deficient environments
- These respirators do not provide eye and face protection. Wear a mask and eye protection to protect mucous membranes of the eyes, nose, and mouth during procedures and activities that generate splashes, sprays, droplets or aerosols of blood, or other potentially infectious materials.

# Questions?????

- For questions, please contact:
  - University Employee Health Clinic (UEHC) @ 6-3631