

# COVID-19

Guidance Date 2/03/21

## GUIDELINES: MAXAIR CAPR SYSTEM

### PURPOSE

To protect staff from airborne pathogens during patient care or from dangerous aerosolized particulates in the environment

### GENERAL INFORMATION

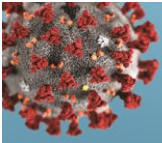
1. The MAXAIR CAPR System is a NIOSH approved Power Air Purifying Respirator that protects the user from dangerous airborne pathogens or aerosolized particulates.
2. Indications for use: With the appropriate face/head covers, the MAXAIR PAPER System can provide protection for (but not limited to):
  - a. Patient Care (as an alternate for N95 respirator)
  - b. Emergency Preparedness
  - c. Pharmacy
  - d. Abatement
  - e. Powder Coating
  - f. Light Industrial
3. Fit-Testing
  - a. Not required per OSHA. MAXAIR Systems are a loose fitting positive pressure PAPR that supplies 6-9 cubic feet per minute (cfm) of airflow.
  - b. OSHA Questionnaire is required prior to using the MAXAIR CAPR System.
4. A surgical or N95 respirator may be worn under the MAXAIR CAPR System as long as it doesn't interfere with the seal area of the system components. Masks that do not interfere with the system components maintain compliance with their NIOSH approvals. Any mask or N95 respirator worn under a MAXAIR System Configuration must be donned prior to donning the MAXAIR System.
5. The mask or N95 respirator must be assembled and donned in complete compliance with its manufacturer's Users Instructions.
6. The complete mask or N95, excluding its ear loops, head ties, etc., must fit completely inside the seal areas of the MAXAIR Systems Configuration donned over it.

### OPERATOR RESPONSIBILITIES

1. Use CAPR system according to its specifications and requirements
2. Maintain, care for, disinfect, and store CAPR System per guidelines

### EQUIPMENT MAINTAINANCE

1. Cleaning
  - a. All inner and outer surfaces of the assembled CAPR system may be wiped with an alcohol, bleach, or quaternary ammonia wipe between uses and users.
  - b. Do not disconnect the filter from the helmet. That will be done by the Biomed Department if maintenance or filter change is needed.



# COVID-19

2. Storage
  - a. Helmet
    - i. After the helmet is disinfected and allowed to dry, place it in the designated MAXAIR Storage cart.
    - ii. Ensure the battery is disconnected and properly stored.
  - b. Battery
    - i. Disinfect the helmet power cord and battery and allow both to dry.
    - ii. Plug the battery into the charger located on the MAXAIR Storage cart.
    - iii. Unplug the battery from the charger after green light remains illuminated (typical time for full charge ~4 hours).
    - iv. NEVER leave the battery on the charger past its maximum charge time of 7.5 hours.
3. Disposable Lens Cuff (DLC) and Comfort Strip
  - a. These items are for individual use only. Do not share with other staff members.
  - b. Clean DLC per above guideline and store per unit recommendation.
  - c. DLC can be reattached to helmet up to 7 times, or until there is visible wear and tear.
  - d. Comfort strip can be reused until visibly soiled or damaged.
4. Filter Cartridges
  - a. Routine filter exchanges will be done by the Biomed Department twice a year.
  - b. May need to be changed with the Helmet Light is *Yellow*, indicating low airflow.
5. Equipment Breakdown: Complete the Biomed Medical Equipment Failure Form on Intranet.

## TRAINING

All staff must complete training prior to use of this system.

1. Competency Validation
  - a. CAPR Competency – DLC
  - b. CAPR Competency – Double Hood
2. Unit-based super-users responsible for ongoing new user training
3. Clinical Education may be utilized for on-going super-user and low utilization department/staff training

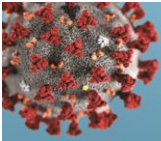
## EXTENDED USE & REUSE GUIDELINES

### Purpose

- To prevent the shortage of disposable lens cuffs (DLC)
- To ensure our staff have access to supplies necessary for safe patient care

**Extended Use:** Staff may wear the same CAPR system (helmet & DLC) for repeated close encounters with several patients (from room to room) without removing the CAPR between patient encounters. They should not be worn in clinical common areas (medication rooms, nursing station, supply rooms, etc.).

1. Discard DLC:
  - a. If contaminated with blood, respiratory or nasal secretions, or other bodily fluids from patients.
  - b. Proper fit cannot be maintained. Slight tension should be felt against the face/chin as you slide your index finger from left to right.



# COVID-19

- c. If you see signs of wear (i.e., scratches, tear on cuff, etc.)
2. Perform hand hygiene with soap and water or an alcohol-based hand sanitizer before and after touching or adjusting the respirator (if necessary for comfort or to maintain fit).

**Reuse:** Staff may reuse the **same** CAPR system by one health care provider with **different** patients by removing it ('doffing') after each encounter. The DLC must be stored appropriately between encounters to be put on again ('donned') prior to the next encounter.

1. Write your name on the sticker located inside the top corner of the DLC.
2. Secure the DLC to helmet, per protocol, and continue with patient care.
3. After patient care is completed go to your designated doffing area and place a disinfection wipe flat on the surface.
4. Take off your dirty gloves and put on clean gloves.
5. Remove the DLC from the helmet by unclicking from the helmet and pulling it away from your face (without touching the outside of the DLC).
6. Place the front of the DLC flat on the disinfection wipe.
7. Place another disinfection wipe on top of the DLC cuff and leave there for the specified dwell time for that type of wipe.
8. Remove your gloves, sanitize your hands and put on clean gloves.
9. Remove the CAPR helmet according to doffing procedure.
10. Clean the CAPR helmet with disinfection wipes.
11. Store the CAPR system in your units designated location.
12. Remove your gloves and perform hand hygiene.

## REFERENCES

1. MAXAIR CAPR User Manual
2. MAXAIR Technical Bulletin (MAXAIR Use with Masks\_October 22, 2020)
3. Biomed Forms: [http://eww.queens.org/biomed/docs/biomed\\_FailureNotification.pdf](http://eww.queens.org/biomed/docs/biomed_FailureNotification.pdf)