



**REGION 11
CHICAGO EMS SYSTEM
PROCEDURE**

Title: Viral / Bacterial Filter

Section: Airway / Ventilatory Management

Approved: EMS Medical Directors Consortium

EMS Level: BLS/ALS

VIRAL/BACTERIAL FILTER

- I. Definition: Device with filter media placed inline to prevent movement of viral or bacterial pathogens from expired air on ventilation during airway management.



II. Specifications:

1. End connector size: 22 mm ID x 15 mm ID/22 mm OD
2. Bacterial efficiency 99.999+%; viral efficiency 99.99+%

III. Indication: Use to prevent pathogen transmission during airway management procedures

IV. Contraindication: None

V. Use of the Viral Filter

1. Bag Valve Mask

a. Face mask > viral filter > bag device





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2. Advanced Airway

- a. I-gel or King Airway SGA > viral filter > ETCO2 connector > bag device



- b. Endotracheal tube > viral filter > ETCO2 connector > bag device



3. CPAP

- a. Face mask > viral filter > CPAP valve



VI. Considerations

1. Minimize aerosol-generating procedures (BVM ventilation, oropharyngeal suctioning, nebulizer treatments, CPAP) for suspected COVID-19 patients.



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2. For airway management procedures, wear personal protective equipment (PPE) at minimum to include N-95 mask, gloves, and eye protection.
3. For the CPAP mask, when the filter is placed then the nebulizer cannot be used, the filter will filter out the medication.