# COVID-19: Aerosol Generating Procedure List and Guidance

## Before Performing Procedure

**Supplies**

PRIOR to performing aerosol generating procedures on COVID-19 suspected or confirmed patients, obtain the following supplies:

- N-95 mask or PAPR if not fit testing or with facial hair
- Goggles/Face shield with N-95 use
- Gown
- Gloves

## Aerosol Generating Procedures

### Medical Procedures

- Endoscopy including EGD, Bronchoscopy, ERCP, Esophageal Manometry, and pH study
  - Endoscopy in COVID-19 patients is highly discouraged
- Colonoscopy
- Transesophageal Echocardiogram (TEE)
- Intubation
- Extubation
- Cardiopulmonary Resuscitation (CPR)
- Tracheostomy placement
- Chest tube insertion/removal (chest tube with/without air leak connected to a closed system is not aerosolizing)
- Electrocautery smoke plumes specifically in the aerodigestive tract includes the airway (pharynx and larynx), pulmonary tract (trachea, bronchi, and lungs), and upper digestive tract (esophagus)
- Surgeries in which high speed drills and bone saws are used
- Surgeries which involve electrocautery and smoke plumes
- Surgeries in which high speed drills and bone saws are used
- Electrosurgery
- Open biopsies
- Needle aspirations
- Surgeries in which high speed drills and bone saws are used

### Bedside Care (non-intubated patients)

- NG / Dubhoff placement
- Sputum-Induction / Sputum-Expectoration
- Nasopharyngeal/Oropharyngeal Swab

### Bedside Care (intubated patients)

- Open suctioning (should be treated as aerosol generating due to high risk of circuit disruption)
  - Oral suctioning is NOT aerosol generating in intubated patient
- Trach Mask Trials
- Manipulation of Ventilator Circuit (including disconnecting circuit or cuff leak testing)
- Tracheal Aspiration
- Bronchoalveolar lavage (mBAL) – only performed in negative pressure
- Nasopharyngeal Swab

### Respiratory Support

- CPAP*
- BIPAP*
- IPPV (intermittent positive pressure ventilation)
- Metered-dose inhaler (MDI) or nebulized medication
  - Refer to pharmacy for selection of MDI versus nebulized medication

*CPAP / BIPAP should be avoided in known COVID-19 patients. If used, HEPA filter should be attached to exhalation port.

**Patient rooms should be considered “high risk” post aerosol generating procedure for specified time to achieve enough air exchanges to remove 99.9% of aerosolized particles

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