Appendix A: Aerosol Generating Medical Procedures

Introduction

An aerosol generating medical procedure (AGMP) is any procedure conducted on a patient that can induce production of aerosols of various sizes, including droplet nuclei. Examples include:

- Intubation and related procedures (e.g., manual ventilation, extubation, open endotracheal suctioning)
- Cardiopulmonary resuscitation
- Bronchoscopy
- Sputum induction
- Nebulized therapy
- Autopsy
- Non-invasive positive pressure ventilation (CPAP, BiPAP)

AGMPs should be performed on patients only when medically necessary.

Personal Protective Equipment (PPE)

N95 Respirator, eye protection, gloves, and a long sleeved gown are worn by all persons in the room where an AGMP is being performed on a patient on Enhanced Droplet/Contact Precautions:

- Put on all PPE before entering the room/bed space
- N95 Respirator shall be:
  - fit tested for HCWs
  - seal-checked prior to each use, as follows:
    - cover respirator with both hands
    - perform one of the following:
      - inhalation test: If respirator collapses slightly there is an adequate seal
      - exhalation test: If no air escapes respirator, there is an adequate seal
  - Changed if contaminated/wet

Respirators shall never be dangled around the neck or reused.

- Before leaving the room/bed space remove gloves, and long sleeved gown
- After leaving the room/bed space remove N95 Respirator and eye protection

Early recognition of patients who may require an AGMP is necessary to ensure procedures are conducted in a controlled setting, which includes:

a. Administrative Controls:

- The most experienced personnel perform the procedure
- The number of individuals present during AGMPs should be limited to only those essential to patient care and support
- Conduct procedures in a non-emergent manner (e.g., elective intubation)
- Sedate patient if intubation is required
- Ensure adequate equipment is in the room/bed space prior to procedure

b. Engineering Controls

- Close doors and windows
- An Airborne Infection Isolation Room (AIIR) is required.
  - Consult Infection Prevention and Control if an AIIR is not available

c. Environmental Controls

- Discard contaminated disposable equipment
- Clean/disinfect contaminated reusable equipment before removing it from the room/bed space