PRINCIPLES* OF AIRWAY MANAGEMENT IN

CORONAVIRUS COVID-19

FOR SUSPECTED/REPORTABLE** OR CONFIRMED CASES OF COVID-19



STAFF PROTECTION



Hand Hygiene



Full Personal Protective Equipment***



Early Preparation of Drugs and Equipment



Meticulous Airway Assessment



Use Closed Suctioning System

PREPARATION



Minimize **Personnel During Aerosol Generating** Procedures****



Airborne Infection **Isolation Room** (if available)



Formulate plan Early



Connect Viral/ **Bacterial Filter** to Circuits and Manual Ventilator



Use Video Laryngoscopy (Disposable if available)

DURING

TEAM DYNAMICS



Clear Delineation of Roles



Clear Communication of Airway Plan



Cross-monitoring by **All Team Members** for Potential Contamination



Airway Management by **Most Experienced Practitioner**





Tight Fitting Mask with Two Hand **Grip to Minimise** Leak



TECHNICAL ASPECTS

Ensure Paralysis to Avoid Coughing



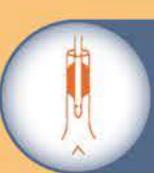
Closed-loop Communication Throughout







Rapid Sequence Induction and Avoid Bag-Mask Ventilation When Possible



Positive Pressure Ventilation Only After Cuff Inflated

AFTER



Avoid Unnecessary Circuit Disconnection



If Disconnection Needed, Wear PPE and Standby Ventilator +/-Clamp Tube



Strict Adherence to Proper Degowning Steps



Hand Hygiene



Team Debriefing

*Principles of Airway Management of COVID-19 may apply to Operating Theatre, Intensive Care, Emergency Department and Ward Settings. Similar principles apply to extubation of COVID-19 patients.

**There are regional and institutional variations on definition of a suspected/reportable case. Please refer to your own institutional practice.

***Personal Protective Equipment according to your own institutional recommendation, may include: Particulate Respirator, Cap, Eye Protection, Long-sleeved Waterproof Gown, Gloves

****Aerosol Generating Procedures: Tracheal Intubation, Non-invasive Ventilation, Tracheostomy, Cardiopulmonary Resuscitation, Manual Ventilation before Intubation, Bronchoscopy, Open Suctioning of Respiratory Tract

References:

1. World Health Organization. Infection prevention and control during health care when novel coronavirus (nCoV) infection is suspected Interim guidance. January 2020.

2. Center for Disease Control and Prevention. Interim Infection Prevention and Control Recommendations for Patients with Confirmed 2019 Novel Coronavirus (2019-nCoV) or Persons Under Investigation for 2019-nCoV in Healthcare Settings. February 2020.

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