

AIRBORNE PRECAUTION INTUBATION PROCEDURE



- PERSONAL PROTECTIVE EQUIPMENT
 - Contact precautions
 - Gown
 - Double glove
 - Boots
 - Airborne precautions
 - Powered air purifying respirator (PAPR)
Or,
 - N95 mask and eye protection
- MEDICATIONS
 - Induction medications (propofol, etomidate, etc.)
 - High dose paralytic to prevent coughing (succinylcholine or rocuronium)
 - Rescue medications (atropine, epinephrine, etc.)
- AIRWAY EQUIPMENT
 - Disposable handle and blade (mac 3, mac 4, miller 2 available)
 - McGrath available (mac 3, mac 4, D-blade)
 - Suction, ETT, stylet, bougie, back up O2 source
 - AMBU bag with
 - Peep valve
 - HEPA FILTER
- PROCEDURE
 - Attending Anesthesiologist to perform intubation
 - Limit staff in room: CRNA/Resident to pass supplies from box into room
 - Minimize BMV, aerosolizing infectious particles
 - Preoxygenate with 100% FiO2 either via BiPAP or AMBU with PEEP valve at 10cm H2O. Don't initiate BiPAP if not on yet to prevent aerosolization
 - RSI to prevent BMV unless absolutely necessary
 - After induction to prevent de-recruitment- hold positive pressure with AMBU and PEEP valve without providing breaths. Proceed expeditiously to intubation.
 - Inflate ETT cuff prior to ventilation
 - Ventilate only after HEPA filter is in circuit
 - Remove outer gloves after intubation
 - Check tube position with ETCO2 and chest x-ray (avoid auscultation unless necessary)
 - Secure ETT
- Post procedure
 - Remove PPE according to CDC/MMC guidelines
 - Wash or use alcohol based hand sanitizer once out of room
 - Use purple top sanitation wipes on all non-disposable equipment
 - Consider changing into clean scrubs

References:

1. Peng, et al. Outbreak of a new coronavirus: what anaesthetists should know. *BJA* doi: 10.1016/j.bja.2020.02.008
2. Raboud, et al. Risk Factors for SARS Transmission from Patients Requiring Intubation: A Multicentre Investigation in Toronto, Canada. *PLoS One*. 2010; 5(5): e10717.
3. <https://www.asahq.org/about-asa/governance-and-committees/asa-committees/committee-on-occupational-health/coronavirus>