HEALTHEAST MEDICAL TRANSPORTATION MEDICAL OPERATIONS MANUAL

7F1 DRUG FACILITATED AIRWAY MANAGEMENT (DFAM)

PATIENT CARE GOALS

- To secure the airway by administering induction and paralytic agents.
- Indications: severe respiratory distress or failure, persistent hypoxia after high flow O₂, altered mental status affecting the patient's ability to maintain their own airway, airway compromise due to trauma, and potential airway compromise due to acute burns. ¹

PARAMEDIC

- 1. Prepare for the procedure.
 - a. Establish vascular access
 - b. Draw up medications
 - c. Prepare suction equipment
 - d. Select and prepare ET tube, stylet, non-visualized airway, and other airway equipment
 - e. Attach ECG, capnography, and oximetry (ear probe preferred)
- 2. Pre-oxygenate the patient:
 - a. Apply smart cannula (always) and provide supplemental oxygen as needed.
 - b. For spontaneously breathing patients, apply nasal cannula O_2 at 15 L/min.
 - c. For non-breathing patients or those with significant pre-existing hypoxia, administer 100% O_2 via BVM.

	ADULT		PEDIATRIC (less than 60 kg)
3.	Pre-treat ² with the following medications, if indicated:		Pre-treat ² with the following medications, if indicated:
	 Atropine 1 mg IV/IO if excessive respiratory scretions. 		a. Atropine 0.01 mg/kg IV/IO (minimum dose 0.1 mg, maximum dose 0.5 mg).
	 Lidocaine 1 mg/kg IV/IO max dose 100 mg for suspected increased intracranial pressure. 		 Lidocaine 1 mg/kg IV/IO max dose 100 mg for suspected increased intracranial pressure
4.	Induce: ²	4.	Induce: ²
	 Etomidate (Amidate) 0.3 mg/kg IV/IO, push over 30 seconds. 		 Etomidate (Amidate) 0.3 mg/kg IV/IO, push over 30 seconds
5.	Paralyze: ²	5. F	Paralyze: ²
	 a. Succinylcholine (Anectine)³ 1.5 mg/kg IV/IO push, If relaxation does not occur after 90 seconds, administer an additional 0.5 mg/kg IV/IO push 		b. Succinylcholine (Anectine) ³ 1.5 mg/kg IV/IO push, If relaxation does not occur after 90 seconds, administer an additional 0.5 mg/kg IV/IO push

- 6. Place Airway: 2
 - a. Intubate the patient following the steps outlined in **7F2 Direct Laryngoscopy** or **7F3 Video Laryngoscopy** or **7E Supraglottic Airway** and confirm proper placement. Terminate intubation attempt if O_2 saturation fall below 90%.

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	ADULT	PEDIATRIC (less than 60 kg)			
7.	Provide sedation and analgesia for <u>all</u> patients using the following medications:	7. Provide sedation and analgesia for <u>all</u> patients using the following medications:			
8.	 a. Midazolam (Versed) 5mg IV/IO slow push. Maximum May repeat every 15 minutes as needed. b. Fentanyl (Sublimaze) 2mcg/kg IV/IO. May repeat every 15 minutes as needed 	a. Midazolam (Versed) 0.1 mg/kg IV/IO slow push. Maximum single dose 5 mg. May repeat every 15 minutes as needed. b. Fentanyl (Sublimaze) 2mcg/kg IV/IO. May repeat every 15 minutes as needed 8. Consider using a long acting paralytic if the patient regains their gag reflex or is resisting ventilation and is not a candidate for removal of the airway device. Administration of a long acting paralytic should also be considered when a long transport is anticipated. In these situations, administer one of the following: a. Vecuronium (Norcuron) 0.1 mg/kg rapid IV/IO push. Repeat as needed. b. Pancuronium 0.1 mg/kg IV/IO over 1 minute. Repeat as needed.			
	 Rocuronium 1.0 mg/kg IV/IO. Repeat as needed. 	 c. Rocuronium 1.0 mg/kg IV/IO. Repeat as needed. 			

DOCUMENTATION KEY POINTS

- Rationale for use of DFAM.
- Performance and timing of each step including drug dosages.
- Continuous monitoring of vital signs and complications (if any) encountered.

NOTES

- ¹DFAM is **contraindicated** in the following situations:
 - Known allergy to induction or paralytic medications
 - Known history of malignant hyperthermia
 - Anatomical deformities that would prevent airway placement

- ³ Succinylcholine (Anectine) is contraindicated in patients with suspected renal failure or other conditions which could cause hyperkalemia (i.e., extensive burns > 4 hours old, excited delirium, metabolic acidosis). In these cases, paralysis should be accomplished using Vecuronium (Norcuron), Pancuronium, or Rocuronium if not contraindicated. If contraindicated, attempt intubation without paralytic. If unsuccessful, then it is acceptable to administer a long acting paralytic.
- ⁴ Vecuronium (Norcuron), Pancuronium and Rocuronium are not to be used as a first line paralytic prior to securing the airway unless succinylcholine (Anectine) is contraindicated. Long acting paralytics are also contraindicated for use in patients with acute neurological conditions such as: status seizure, suspected stroke (hemorrhagic or embolic) or head trauma.

² Wait 2-4 minutes after medication is administered before moving on to next step. This allows each medication to take full effect during the procedure.