

ESOPHAGEAL INTUBATION DETECTOR

Document Owner: M. James Program/Service Area: Centre for Prehospital Care Issue Date: April 2009

Review Date September 2024 Revision Date: Sep. 2023

Approval: Corey Petrie, Interim Regional Manager, Centre for Prehospital Frequency: As Required.

Care & Trauma Services

Signature:

Purpose: To ensure a consistent standardized practice for the utilization of an esophageal intubation detector

		Content	Details / Visual Component
	1.	Once the patient has been intubated via endotracheal (ET) route, ensure distal cuff is sufficiently inflated.	
	2.	Prior to ventilation, compress the bulb of the tube device; place it over the proximal end of the airway adjunct and release.	Use care if storage temperature is near freezing. The bulb will not function properly due to loss of self-inflating properties.
	3.	Allow bulb to self-inflate.	
•	4.	If air returns and fills the bulb rapidly (less than 5 seconds), the ET/NT tube is likely in the trachea.	Confirm clinically and secure the tube.
	5.	If air slowly fills the bulb (5 to 30 seconds), carefully assess ET/NT tube location clinically.	Use direct laryngoscopic visualization if placement is still questioned. If location is still in doubt, confirm placement via other methods, re-intubate or support ventilation by alternate means.
	6.	If air does not fill the bulb or vomit returns, the ET/NT tube is likely in the esophagus. Deflate the ETT cuff, and either remove or replace the ETT appropriately.	
	7.	Document the use of the esophageal intubation detector as a verification method on the patient care record as per the Ministry of Health and Long Term	Although the tube device works in cardiac arrest as well as non-cardiac arrest situations, there are situations that make it's mechanism of action less reliable:
		Care Emergency Health Services Branch Ambulance Call Report Documentation Standards and your Service Provider policy.	 Morbid obesity: When very obese patients suffer cardiac arrest or paralysis the weight of their chest wall compresses their thoracic cavity including the trachea and bronchus. This can lead





Expected Outcome: Successfully utilization of an esophageal intubation detector.