



CSRT Rapid Response Return to Practice Toolkit – Airway Management

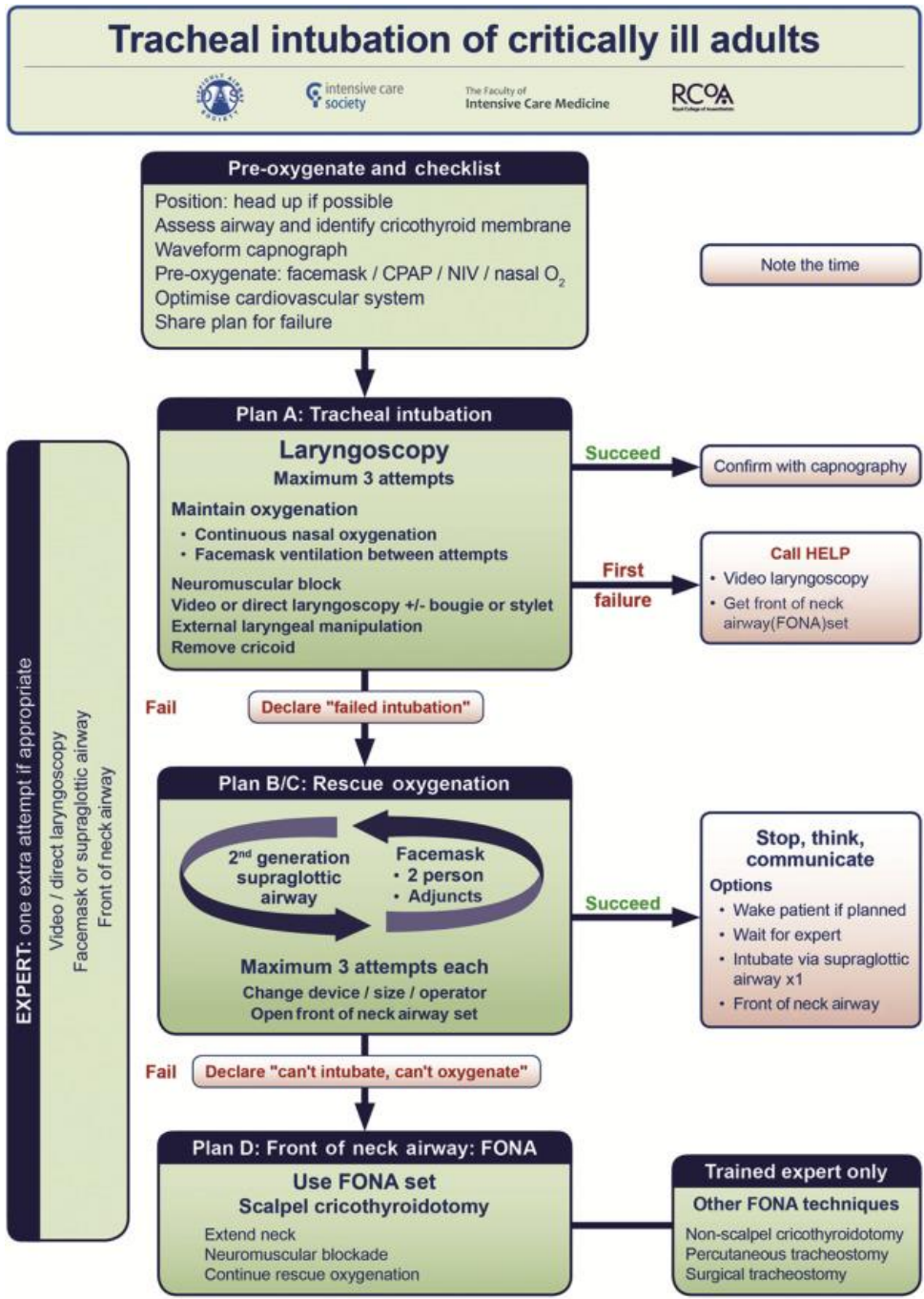
Resources (Basic Review):

- Oropharyngeal and nasopharyngeal airways: [Click here](#)
- Getting ready to use a manual resuscitator on a patient for manual ventilation: [Click here](#)
- Review of various types of artificial airways: [Click here](#) (Note: this video mentions the Passy-Muir valve which is no longer available in Canada. Please refer to TRACOE® information for information on tracheostomy tubes and valves which permit speech.)
- Guidelines for the management of tracheal intubation in the critically ill adult (Higgs *et al.*, *Brit J Anesth* 2018): [Click here](#)
- Intubation review: [Click here](#)
- Difficult airway assessment video: [Click here](#)
- Endotracheal tube cuff pressure measurement: [Click here](#)
- Suction guideline (AARC): [Click here](#)
- Closed suction review: [Click here](#)
- Tracheostomy review (includes equipment and trach care review): [Click here](#)
- Intubation for the COVID-19 patient (Mount Sinai Hospital): [Click here](#)
- Extubation: [Click here](#)

Industry-Developed Resources:

- Hollister Anchorfast: [Click here](#)
- TRACOE® (CAREstream Medical): [Click here](#)
- TRACOE® (McArthur Medical): [Click here](#)
- Video laryngoscopy (Medtronic): [Click here](#)
- Glidescope video laryngoscope usage instructions (CHS): [Click here](#)
- iView video laryngoscope (Intersurgical): [Click here](#)
- McGrath™ Mac Video Laryngoscope (Medtronic): Instructional video: [Click here](#)
- Closed suction system (Intersurgical): [Click here](#)

The CSRT Rapid Response Refresher Resource is intended to provide respiratory therapists with review materials. For information specific to the management of Coronavirus disease, please refer to the CSRT COVID-19 resource page: <https://www.csrt.com/csrt-novel-coronavirus-resources/>.



This flowchart forms part of the DAS, ICS, FICM, RCoA guideline for tracheal intubation in critically ill adults and should be used in conjunction with the text.

(Higgs et al., 2018)

The CSRT Rapid Response Refresher Resource is intended to provide respiratory therapists with review materials. For information specific to the management of Coronavirus disease, please refer to the CSRT COVID-19 resource page: <https://www.csrt.com/csrt-novel-coronavirus-resources/>.



Suggested ETT Sizes

Age	ETT Size *(age in yrs/4) + 4	Oral depth *(age in yrs/2) + 12	MacIntosh blade	Miller blade
Premature	2.5-3	6-8	0	0
Newborn	3-3.5	9-10	0	0
3-12 months	4	10.5-12	0	0
1 year*	4	12.5-13.5	1	1
2 years*	4.5	13.5	2	2
4 years*	5	14	2	2
6 years*	5.5	15	2	2
8 years*	6 cuffed	16	2	2
10 years*	6.5 cuffed	17	2-3	2-3
12 years*	6.5-7 cuffed	18	2-3	3
Adolescent	6.5-7+ cuffed	21	2, 3, 4	3
Adult	6.5-8 cuffed	21	2, 3, 4	3-4

This table presents guidelines only. Consider individual patient characteristics and confirm appropriate tube sizing and placement. Table from Whitten, 2019.

Suction Tips

- Suctioning should only be performed when clinically necessary.
- Preoxygenate (100% in adults and peds, baseline FiO₂ + 10% in neonates for 30-60 seconds)
- Sterile technique is encouraged for open suction.
- Closed suction is recommended for persons with suspected or confirmed coronavirus disease.
- The maximum recommended negative pressure in infants is -80 to -100 mmHg and -120 to -150mmHg in adults.
- Do not apply negative pressure for more than 15 seconds.
- The evidence does not support instillation of saline into the airway prior to suctioning.
- Monitor the patient closely throughout the procedure.

The CSRT Rapid Response Refresher Resource is intended to provide respiratory therapists with review materials. For information specific to the management of Coronavirus disease, please refer to the CSRT COVID-19 resource page: <https://www.csrt.com/csrt-novel-coronavirus-resources/>.



References

- American Association for Respiratory Care. Endotracheal Suctioning of Mechanically Ventilated Patients With Artificial Airways 2010. *Respiratory Care* June 2010, 55 (6) 758-764. [Click here](#)
- Goncalves, RL. Endotracheal suctioning in intubated newborns: an integrative literature review. *Rev Bras Ter Intensiva*. 2015 Jul-Sep;27(3):284-92. [Click here](#)
- Higgs. A. *et al.* Guidelines for the management of tracheal intubation in critically ill adults. *Br J Anaesth*. 2018 Feb;120(2):323-352. [Click here](#)
- Whitten, C. Ten common pediatric airway problems and how to solve them. *Anesthesiology News*. [Click here](#)

The CSRT Rapid Response Refresher Resource is intended to provide respiratory therapists with review materials. For information specific to the management of Coronavirus disease, please refer to the CSRT COVID-19 resource page: <https://www.csrt.com/csrt-novel-coronavirus-resources/>.