Basic Airway Management

Ventilation without Intubation





OCTOBER 15-18, 2019

VANCOUVER CONVENTION CENTRE VANCOUVER, BRITISH COLUMBIA



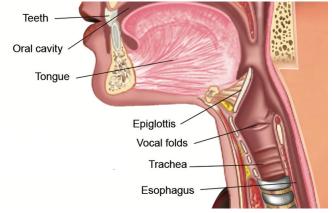
Speaker Disclosures

I do not have financial relationships to disclose.





Align axes and open pharynx

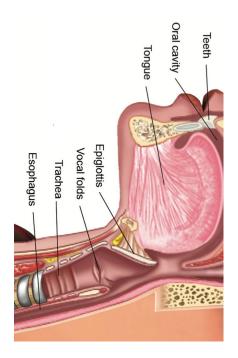






- Align axes and open pharynx
- Head tilt/chin lift



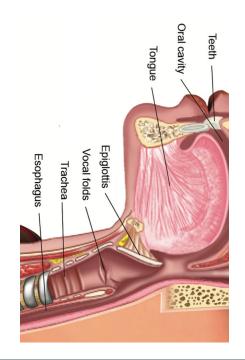






- Align axes and open pharynx
- Head tilt/chin lift
- Jaw thrust



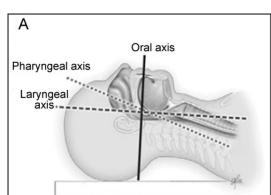


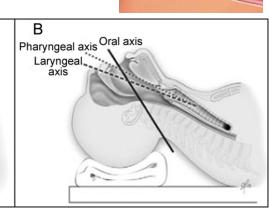






- Align axes and open pharynx
- Head tilt/chin lift
- Jaw thrust
- Sniffing position









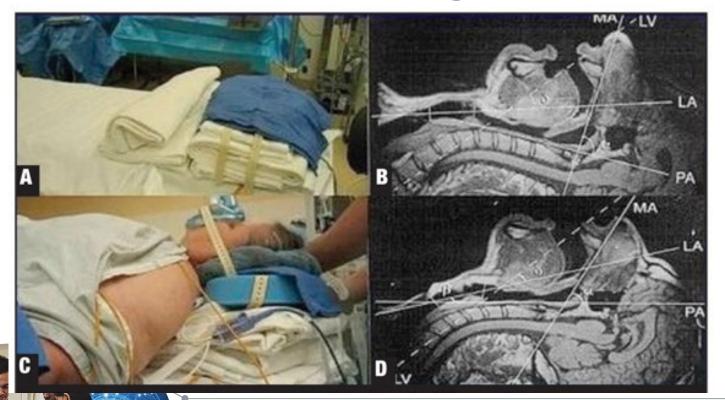


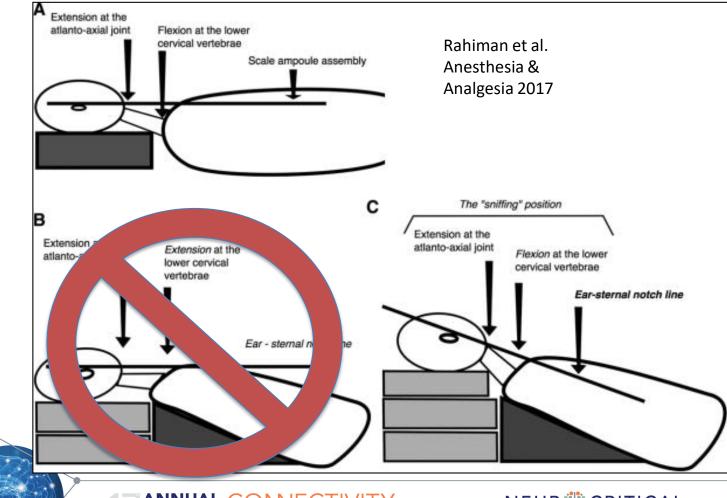
- Align axes and open pharynx
- Head tilt/chin lift
- Jaw thrust
- Sniffing position
- Ramping increases FRC





Ramping

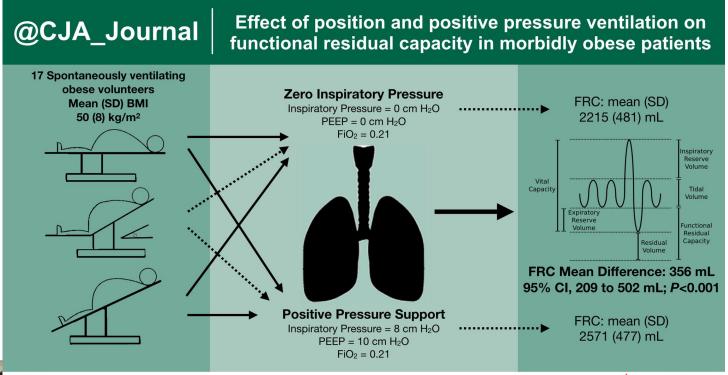








Ramping increases FRC





Couture, EJ et al. Can J Anesth 2018; 65(5): 522-28









Increasing FiO2

- Increase alveolar PO2
- Apneic oxygenation







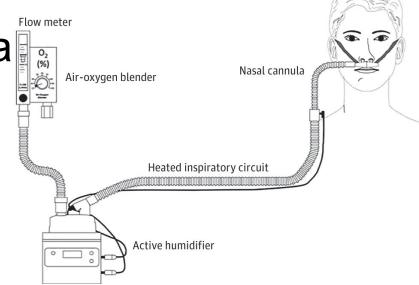
	Device (L/min)	FIO₂ / each L/min ↑	Final FIO ₂
	Nasal Cannula (1-6)	0.04	0.24-0.44
	Simple Mask (6-10)	0.05	0.40-0.60
	Mask with Reservoir (6-10)	0.10	0.60-0.80+





Increasing FiO2

- Increase alveolar PO2
- Apneic oxygenation
- High-flow nasal cannula







Bag – facemask ventilation

- C-grip lifts jaw and achieves seal
- 2-handed approach improves seal
- Beard, obesity, thick neck, lack of teeth predict difficult



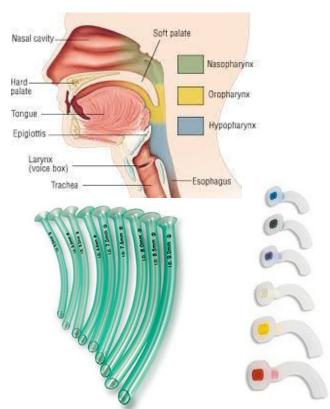




Naso-/oropharyngeal airways

 Lift tongue, improve access to hypopharynx

Can easily obstruct (NPA)



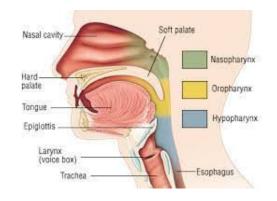




Naso-/oropharyngeal airways

- Lift tongue, improve access to hypopharynx
- Can easily obstruct (NPA)

Correct size is important







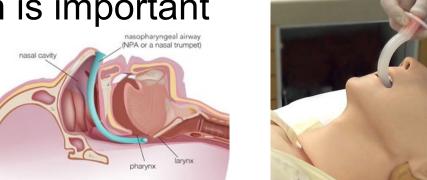


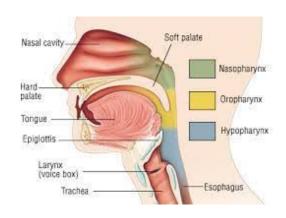




Naso-/oropharyngeal airways

- Lift tongue, improve access to hypopharynx
- Can easily obstruct (NPA)
- Correct size is important
- Correct insertion is important











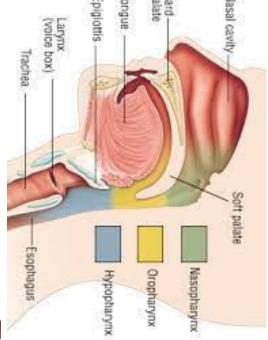
Supraglottic airways

Provide stable access to hypopharynx

Direct gas flow to glottis

 Some insulation to esophagus, reducing aspiration risk









Supraglottic airways

- Require open glottis
- Many allow fiberoptic intubation through device
- Laryngeal mask airway (LMA) and variation vs pharyngeal tube (e.g. King airway)





Supraglottic airways - LMA

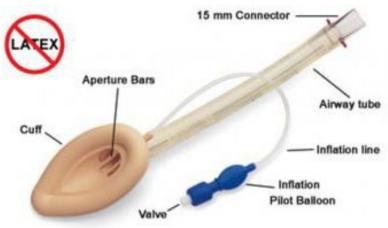


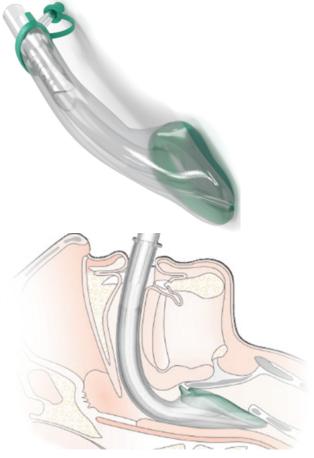


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LMA

 Used for anesthesia when aspiration risk is low

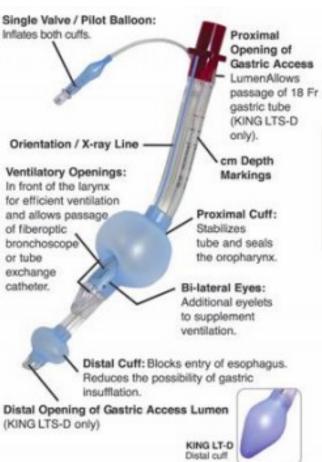






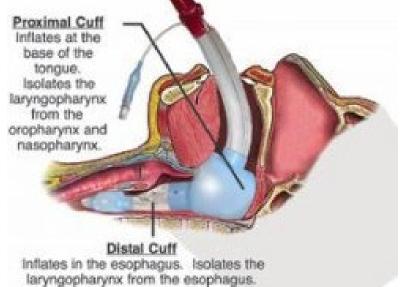


Supraglottic airways – King Airway



Faster and safer than intubation in pre-hospital

setting





Thank you! Next station is Intubation



