

Preparing for difficult RSI

Case 1

You receive a BAT call to advise that a 168kg, 42yo man is en-route to your ED post MVA. He has significant facial trauma and is in a cervical collar. Obs – HR 122, BP 80/50, RR30, sats 92% non-rebreathing mask, GCS12.

- a. Outline your preparation to receive this patient?
- b. Initial airway assessment and management?
- c. You decide to do a modified RSI. What modifications to a “standard RSI” are required?
- d. You induce the patient but you are unable to ventilate him despite optimal attempts at facemask/LMA/ETT. What now....?

Case 2

A 4yo girl with Down’s syndrome presents with severe croup. She obstructs and has a respiratory arrest as she is being transferred from the ambulance trolley to the resus bed.

- a. Outline your initial airway management
- b. You are unable to ventilate her with a bag/mask/valve. How do you proceed?

http://www.rch.org.au/clinicalguide/guideline_index/Acute_Upper_Airway_Obstruction/

<http://www.uptodate.com/contents/needle-cricothyroidotomy-with-percutaneous-transtacheal-ventilation>

Discussion

How do you anticipate/assess a difficult airway?

- Lemon
 - o Look
 - o Evaluate 3-3-2
 - o Mallampati
 - o Obstruction
 - o Neck Mobility

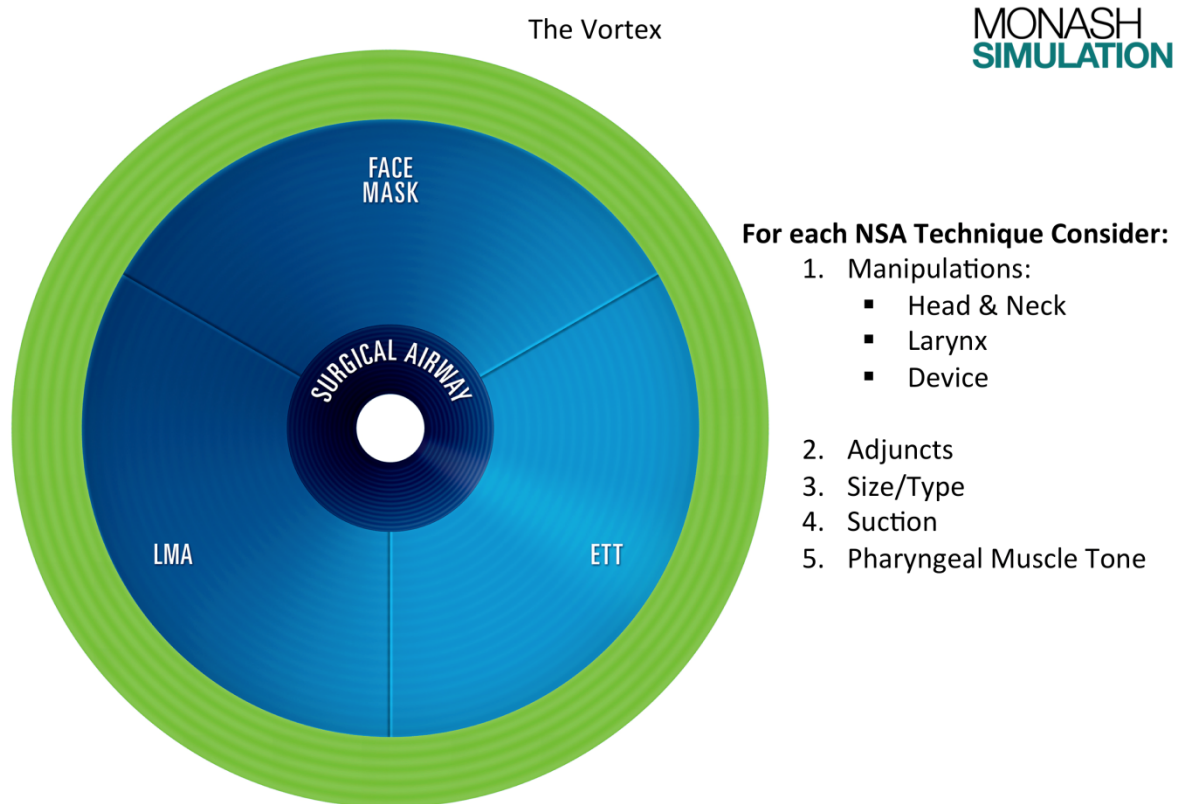
Methods for optimizing success

- Preparation/position/Vortex

- Preoxygenation
- Premed + Paralysis
- Placement of airway
- Post intubation Mx.

<http://emedicine.medscape.com/article/80222-overview#a30> – Difficult Airway Assessment

http://www.vortexapproach.com/Vortex_Approach/Vortex.html



**NO MORE THAN THREE TRIES AT EACH NSA TECHNIQUE
AT LEAST ONE TRY SHOULD BE HAD BY MOST EXPERIENCED AVAILABLE LARYNGOSCOPIST**

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Thus the trigger for performing an emergency surgical airway is the inability to establish a patent airway following optimal attempts via each of the 3 non-surgical airways, NOT the occurrence of oxygen desaturation.

Mallampatti views

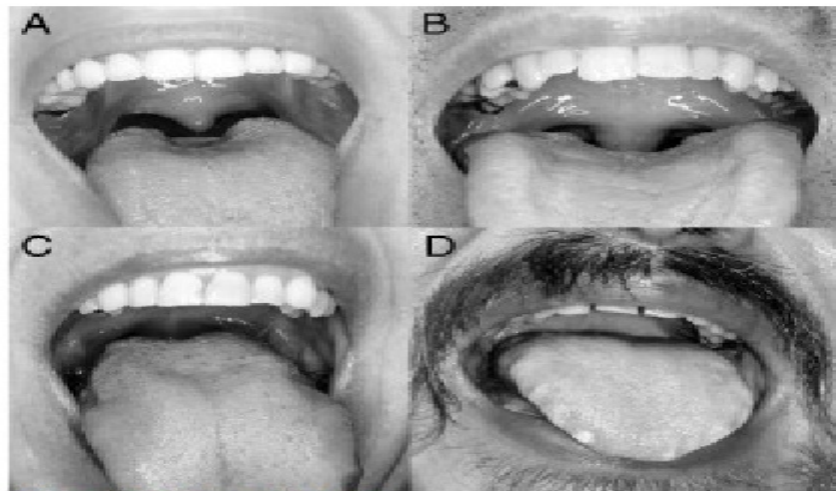


Figure 2: Mallampatti views

Mallampatti/Cormack-Lehane

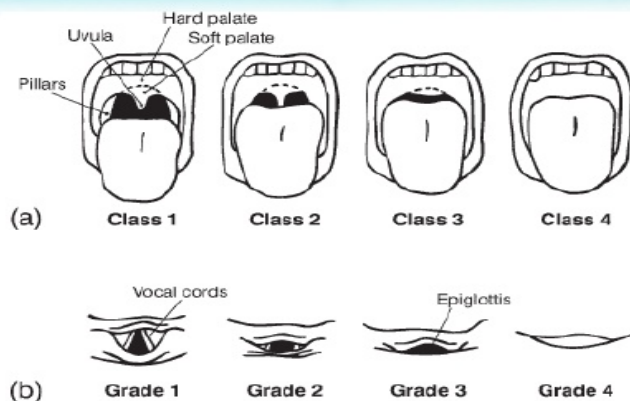


Figure 2 - a) Mallampatti classification modified by Samsoon and Young: Class 1 - visualization of the soft palate, Class 2 - complete visualization of uvula, Class 3 - visualization of the base of the uvula, Class 4 - soft palate is not visible at all; b) Laryngoscopy according to the classification of Cormack and Lehane: Grade I - most of the glottis visible, Grade II - only the posterior extremity of the glottis visible, Grade IV - not even the epiglottis visible⁶

Positioning in the obese patient

