

SECURING THE AIRWAY OF A CHILD WITH CRITICAL UPPER AIRWAY OBSTRUCTION (UAO)

Maintain oxygenation and ventilation with 100% oxygen via facemask, oro/naso pharyngeal airway or laryngeal mask airway.

Keep stomach decompressed with large orogastric tube.

Move the child to theatre if it is safe to do so

1. GAS induction

CPAP HELPS

2. Consider MUSCLE RELAXANT

**Especially if the patient becomes apnoeic
OR outside of the theatre environment**

3. INTUBATION by ANAESTHETIST

Maximum of two repeat attempts only if $\text{SpO}_2 > 90\%$

FAIL

4. INTUBATION by ENT

Maximum of two repeat attempts only if $\text{SpO}_2 > 90\%$

FAIL

5. Emergency TRACHEOSTOMY

**OR SCALPEL-BOUGIE CRICOHYOIDOTOMY
(Older children with clearly palpable anatomy)**

Gas induction may be slow or impossible in critical UAO. Increased work of breathing may worsen UAO.

IV induction may be appropriate (necessary outside of theatre)

Muscle relaxant may make mask ventilation and intubation easier.

Primary intubation with a video laryngoscope is recommended. Remember repeated intubation attempts cause trauma and can lead to CICV.

Lindholm laryngoscope with Havers light clip and Rigid Endoscope – see overleaf.
OR Bonfils scope (maybe operated by anaesthetist).

Tracheostomy size chart overleaf.

 MAST Make the Airway Safe Team	Preterm - 1mnth	1-6 mnths	6-18 mnths	18 mnth – 3 yrs	3-6 yrs	6-9 yrs	9-12 yrs	
Start ET tube One size smaller than normal	2.5 UNCUFFED	3.0 UNCUFFED	3.5 UNCUFFED	4.0 UNCUFFED	4.5 UNCUFFED	5.5 UNCUFFED	6.5 UNCUFFED	
ET tube for normal airway	2.5 or 3.0 UNCUFFED	3.5 UNCUFFED	4.0 UNCUFFED	4.5 UNCUFFED	5.0 UNCUFFED	6.0 UNCUFFED	7.0 UNCUFFED	
Laryngoscope	Small Lindholm	Small Lindholm	Small Lindholm	Medium Lindholm	Medium Lindholm	Medium Lindholm	Adult Lindholm	
Rigid Endoscope	Preterm – 1 mnth scope 2.1mm short	1-6 mnth scope 2.7mm short		6 mnth – 9 yrs scope 2.9mm x 30cm				
Bivona cuffed Tracheostomy	2.5 or 3.0 neo length	3.5 neo length	4.0 paed length	4.5 paed length	5.0 paed length	5.5 paed length	6.0 paed length	