Cannot intubate and cannot ventilate (CICV) in a paralysed anaesthetised child aged 1 to 8 years

**Failed intubation inadequate ventilation**

→ **Give 100% oxygen**

→ **Call for help**

**Step A** Continue to attempt oxygenation and ventilation

- FiO₂ 1.0
- Optimise head position and chin lift/jaw thrust
- Insert oropharyngeal airway or SAD (e.g. LMA™)
- Ventilate using two person bag mask technique
- Manage gastric distension with an OG/NG tube

**Step B** Attempt wake up if maintaining SpO₂ >80%

- If rocuronium or vecuronium used, consider sugammadex (16mg/kg) for full reversal
- Prepare for rescue techniques in case child deteriorates

**Step C** Airway rescue techniques for CICV (SpO₂ <80% and falling) and/or heart rate decreasing

- Call for help again if not arrived

**ENT available**

→ **Succeed**

- Percutaneous cannula cricothyroidotomy / transtracheal jet ventilation (pressure limited)

→ **Fail**

- Continue jet ventilation set to lowest delivery pressure until wake up or definitive airway established
- Perform surgical cricothyroidotomy / transtracheal and insertion of ETT / tracheostomy tube
- Consider passive O₂ insufflation while preparing

**Call for specialist ENT assistance**

- **ENT not available**

- Note: Cricothyroidotomy techniques can have serious complications and training is required – only use in life-threatening situations and convert to a definitive airway as soon as possible

**Cannula cricothyroidotomy**

- Extend the neck (shoulder roll)
- Stabilise larynx with non-dominant hand
- Access the cricothyroidotomy membrane with a dedicated 14/16 gauge cannula
- Aim in a caudad direction
- Confirm position by air aspiration using a syringe with saline
- Connect to either:
  - adjustable pressure limiting device, set to lowest delivery pressure
  - 4Bar O₂ source with a flowmeter (match flow l/min to child's age) and Y connector
- Cautiously increase inflation pressure/flow rate to achieve adequate chest expansion
- Wait for full expiration before next inflation
- Maintain upper airway patency to aid expiration

**SAD** = supraglottic airway device