<table>
<thead>
<tr>
<th>Prepare the patient</th>
<th>Prepare the equipment</th>
<th>Prepare the team</th>
<th>Prepare for difficulty</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Reliable IV / IO access</td>
<td>□ Apply monitors</td>
<td>□ Allocate roles</td>
<td>□ Can we wake the patient if intubation fails?</td>
</tr>
<tr>
<td>□ Optimise position</td>
<td>□ SpO₂ / waveform ETCO₂ / ECG / BP</td>
<td>One person may have more than one role.</td>
<td>□ Verbalise “Airway Plan is:”</td>
</tr>
<tr>
<td>□ Sit-up?</td>
<td>□ Check equipment</td>
<td>□ Team Leader</td>
<td>□ Plan A:</td>
</tr>
<tr>
<td>□ Mattress hard</td>
<td>□ Tracheal tubes x 2 - cuffs checked</td>
<td>□ 1ˢᵗ Intubator</td>
<td>Drugs &amp; laryngoscopy</td>
</tr>
<tr>
<td></td>
<td>□ Direct laryngoscopes x 2</td>
<td>□ 2ⁿᵈ Intubator</td>
<td>□ Plan B/C:</td>
</tr>
<tr>
<td></td>
<td>□ Videolaryngoscope</td>
<td>□ Cricoid force</td>
<td>Supraglottic airway</td>
</tr>
<tr>
<td></td>
<td>□ Bougie / stylet</td>
<td>□ Intubator’s assistant</td>
<td>Face-mask</td>
</tr>
<tr>
<td></td>
<td>□ Working suction</td>
<td>□ Drugs</td>
<td>Fibreoptic intubation via</td>
</tr>
<tr>
<td></td>
<td>□ Supraglottic airways</td>
<td>□ Monitoring patient</td>
<td>supraglottic airway</td>
</tr>
<tr>
<td></td>
<td>□ Guedel / nasal airways</td>
<td>□ Runner</td>
<td>□ Plan D:</td>
</tr>
<tr>
<td></td>
<td>□ Flexible scope / Aintree</td>
<td>□ MILS (if indicated)</td>
<td>FONA</td>
</tr>
<tr>
<td></td>
<td>□ FONA set</td>
<td>□ Who will perform FONA?</td>
<td>Scalpel-bougie-tube</td>
</tr>
<tr>
<td>□ Optimal preoxgenation</td>
<td>□ Check drugs</td>
<td>□ Who do we call for help?</td>
<td>□ Does anyone have questions or concerns?</td>
</tr>
<tr>
<td>□ 3 mins or ETO₂ &gt; 85%</td>
<td>□ Consider ketamine</td>
<td></td>
<td></td>
</tr>
<tr>
<td>□ Consider CPAP / NIV</td>
<td>□ Relaxant</td>
<td></td>
<td></td>
</tr>
<tr>
<td>□ Nasal O₂</td>
<td>□ Pressor / inotrope</td>
<td></td>
<td></td>
</tr>
<tr>
<td>□ Optimise patient state</td>
<td>□ Maintenance sedation</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Can't Intubate, Can't Oxygenate (CICO) in critically ill adults

CALL FOR HELP

Declare "Can't Intubate, Can't Oxygenate"

Plan D: Front Of Neck Airway: FONA

- Extend neck
- Ensure neuromuscular blockade
- Continue rescue oxygenation
- Exclude oxygen failure and blocked circuit

Scalpel cricothyroidotomy

**Equipment:**
1. Scalpel (wide blade e.g. number 10 or 20)
2. Bougie (≤ 14 French gauge)
3. Tube (cuffed 5.0-6.0mm ID)

**Laryngeal handshake to identify cricothyroid membrane**

**Palpable cricothyroid membrane**
- Transverse stab incision through cricothyroid membrane
- Turn blade through 90° (sharp edge towards the feet)
- Slide Coudé tip of bougie along blade into trachea
- Railroad lubricated cuffed tube into trachea
- Inflate cuff, ventilate and confirm position with capnography
- Secure tube

**Impalpable cricothyroid membrane**
- Make a large midline vertical incision
- Blunt dissection with fingers to separate tissues
- Identify and stabilise the larynx
- Proceed with technique for palpable cricothyroid membrane as above

Trained expert only

**Other FONA techniques**
- Non-scalpel cricothyroidotomy
- Percutaneous tracheostomy
- Surgical tracheostomy

Post-FONA care and follow up

- Tracheal suction
- Recruitment manoeuvre (if haemodynamically stable)
- Chest X-ray
- Monitor for complications
- Surgical review of FONA site
- Agree airway plan with senior clinicians
- Document and complete airway alert

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.
Tracheal intubation of critically ill adults

Pre-oxygenate and Checklist
- Position: head up if possible
- Assess airway and identify cricothyroid membrane
- Waveform capnograph
- Pre-oxygenate: facemask / CPAP / NIV / nasal O₂
- Optimise cardiovascular system
- Share plan for failure

Plan A: Tracheal Intubation

Laryngoscopy
- Maximum 3 attempts
  - Maintain oxygenation
    - Continuous nasal oxygenation
    - Facemask ventilation between attempts
  - Neuromuscular block
  - Video or direct laryngoscopy +/- bougie or stylet
  - External laryngeal manipulation
  - Remove cricoid

Fail
- Declare "failed intubation"

Plan B/C: Rescue Oxygenation

2nd generation supraglottic airway
- Facemask
  - 2 person
  - Adjuncts
- Maximum 3 attempts each
  - Device / size / operator
  - Open Front Of Neck Airway set

Fail
- Declare "can't intubate, can't oxygenate"

Plan D: Front Of Neck Airway: FONA

Use FONA set
- Scalpel cricothyroidotomy
  - Extend neck
  - Neuromuscular blockade
  - Continue rescue oxygenation

Trained expert only
- Other FONA techniques
  - Non-scalpel cricothyroidotomy
  - Percutaneous tracheostomy
  - Surgical tracheostomy

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.