

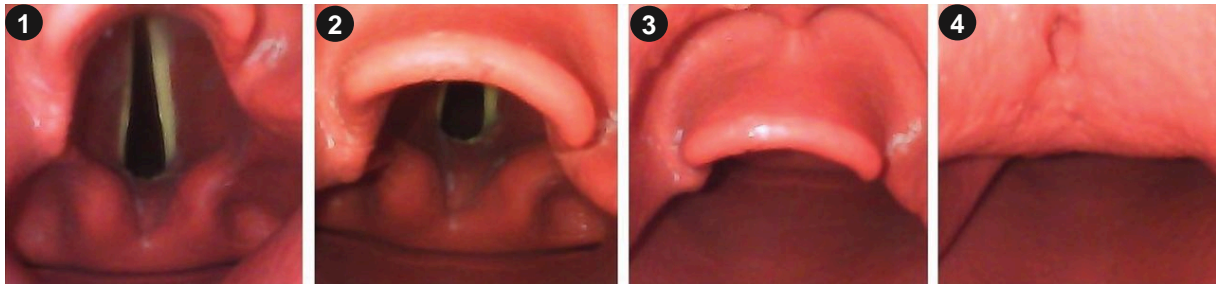


Endotracheal Intubation

ALS PROCEDURE AP-01

INDICATION

- Patients that are ≥ 15 years old with respiratory compromise or in cardiac and/or respiratory arrest or where the airway cannot be adequately maintained by BLS techniques.
- Cormack-Lehane Grade of 1 or 2.

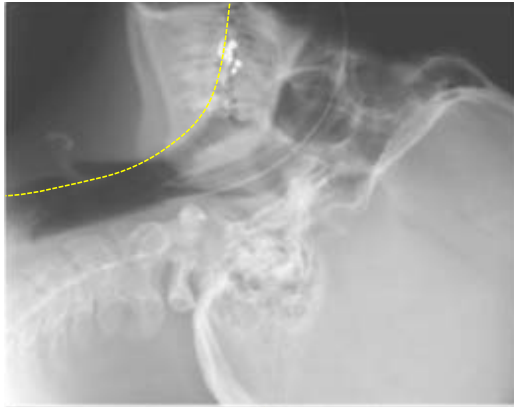


Grade 1 Full-view of vocal cords **Grade 2** Partial-view of vocal cords **Grade 3** Epiglottis visible only **Grade 4** No identifiable airway structures

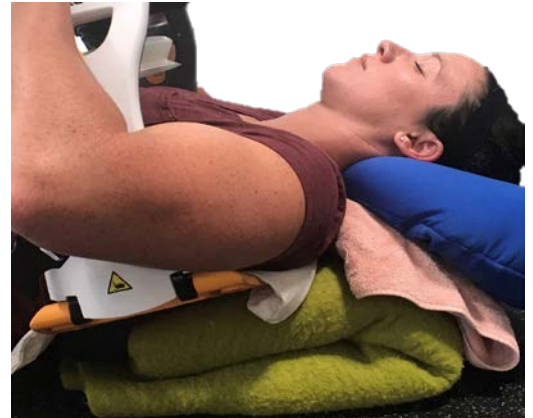
PROCEDURE

- Prepare, position and oxygenate the patient with 100% Oxygen. Ideal patient positioning is keeping the ears in line with the sternal notch.
- Consider use of Video Laryngoscopy device when available.
- Select \leq size 7.0 ET tube and endotracheal tube introducer (Bougie); have suction ready.
- When performing direct laryngoscopy, use of an endotracheal tube introducer (Bougie) device and a two person technique is recommended.
- Using the laryngoscope, visualize vocal cords.
- Determine the Cormack-Lehane Grade upon direct laryngoscopy. If the patient has a Cormack-Lehane Grade of 3 or 4, do not proceed with Endotracheal Intubation, return to [Airway/Respiratory Management M-20](#) and consider [King Tube Intubation AP-02](#).
- Limit each intubation attempt to 30 seconds with BVM between attempts. For patients in cardiac arrest this is not necessary as long as chest compressions are continuous.
- Visualize tube passing through vocal cords.
- Inflate the cuff with 3 – 10 mL of air.
- Apply [Waveform Capnography AP-12](#).
- Auscultate for bilaterally equal breath sounds and absence of sounds over the epigastrium. If you are unsure of placement, remove tube and ventilate patient with a BVM.
- If ET intubation efforts are unsuccessful after the 1st attempt, return to [Airway/Respiratory Management M-20](#) and re-evaluate the airway positioning before the 2nd attempt.
- If ET intubation efforts are unsuccessful after the 2nd attempt, return to [Airway/Respiratory Management M-20](#) and consider [King Tube Intubation AP-02](#).
- Patients who have an advanced airway established should be secured with tape or a commercial device. Devices and tape should be applied in a manner that avoids compression of the front and sides of the neck, which may impair venous return from the brain.

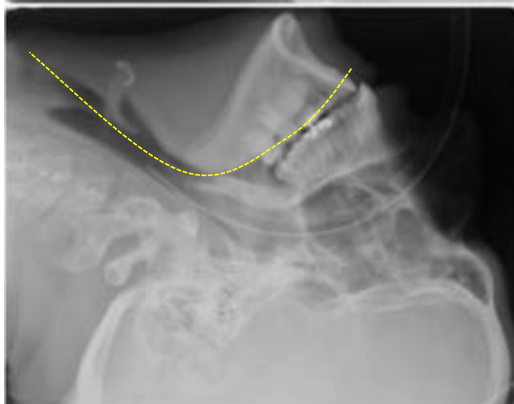
- If the patient regains consciousness while intubated, do not extubate. Use restraints as necessary to prevent uncontrolled extubation. Consider [Sedation AP-14](#) if patient becomes awake and aware.
- If the patient has a suspected spinal injury:
 - Open the airway using a jaw-thrust without head extension.
 - If airway cannot be maintained with jaw thrust, use a head-tilt/chin-lift maneuver.
 - Manually stabilize the head and neck rather than using an immobilization device during CPR.



Ear-to-Sternal Notch



Neutral



Extension



Image: Copyright Airway Cam Technologies