AIRWAY MANAGEMENT



First priority is establishment or maintenance of airway patency

1. Talk to the patient

A patient who can speak clearly must have a clear airway. Airway obstruction by the tongue in the unconscious patient is often a problem. The unconscious patient may require assistance with airway and/or ventilation. If you suspect a head, neck or chest injury, protect the cervical spine during endotracheal intubation.

2. Give oxygen

Give oxygen, if available, via self-inflating bag or mask.

3. Assess the airway. Signs of airway obstruction include:

- Snoring or gurgling
- Stridor or abnormal breath sounds
- Agitation (hypoxia)
- Using the accessory muscles of ventilation/paradoxical chest movements
- Cyanosis

Be alert for foreign bodies. Intravenous sedation is **absolutely** contraindicated in this situation.

4. Consider the need for advanced airway management

5. Indications for advanced airway management techniques include:

- Persisting airway obstruction
- Penetrating neck trauma with hematoma (expanding)
- Apnea
- Hypoxia
- Severe head injury
- Chest trauma
- Maxillofacial injury

Airway obstruction requires urgent treatment

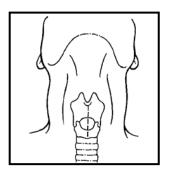




Surgical cricothyroidotomy should be conducted in any patient where intubation has been attempted twice and failed and/or the patient cannot be ventilated.

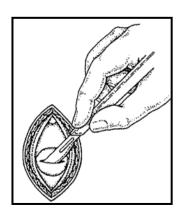
TECHNIQUE

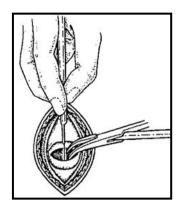
- 1. Hyperextend the neck, making the patient comfortable
- 2. Identify the groove between the cricoid and thyroid cartilages just below the "Adam's apple" (protruding thyroid)
- 3. Clean the area and infiltrate with local anesthetic
- 4. Incise through the skin vertically with a 1.5 cm cut and use blunt dissection to ensure that you can see the membrane between the thyroid and cricoid



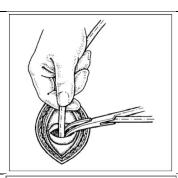
5. With a #22 or #23 scalpel blade, stab through the membrane into the hollow trachea

6. Rotate the blade 90°, insert a curved artery forceps alongside the blade, remove the blade and open the forceps side to side, widening the space between the thyroid and cricoid cartilages

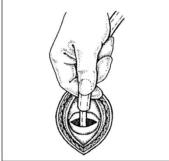




7. Pass a thin introducer or a nasogastric tube into the trachea if very small access or proceed to step 9



8. Run a 4-6 endotracheal tube over the introducer and pass it into the trachea



9. Remove the introducer, if used

- This tube can stay in place for up to 3 days. Do not attempt this procedure in a child under the age of 10 years; passing several needles through the membrane will give enough air entry.
- This procedure should be performed by an experienced person, with prior knowledge of the anatomy and medical condition of the patient.
- This procedure should not be undertaken lightly, as wrong placement, bleeding and delay can cause death.