

Airway & Breathing

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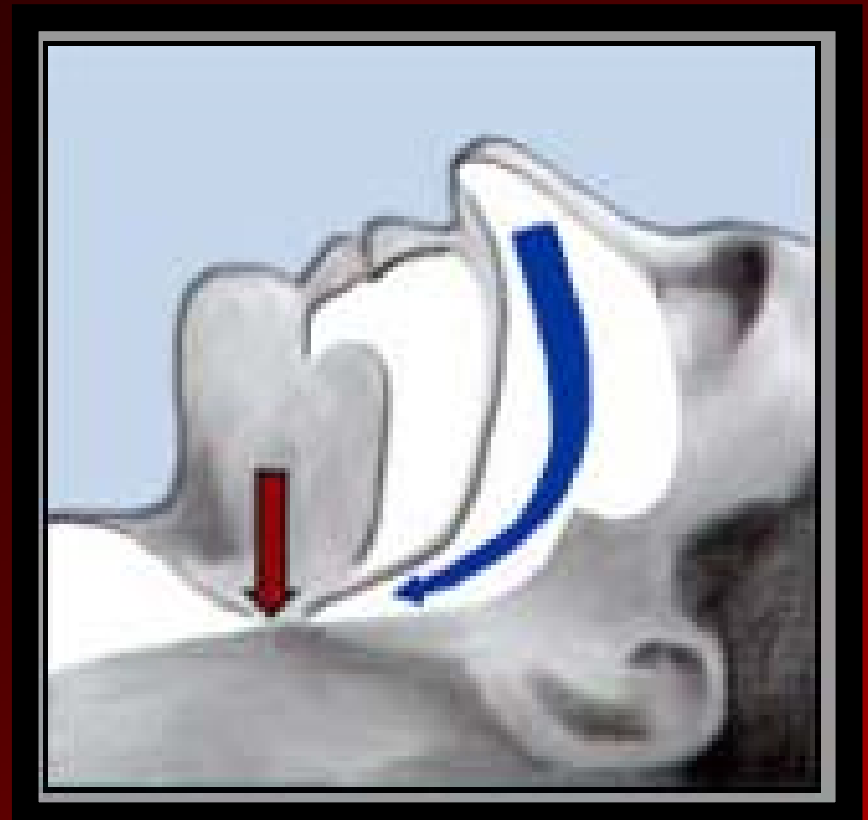
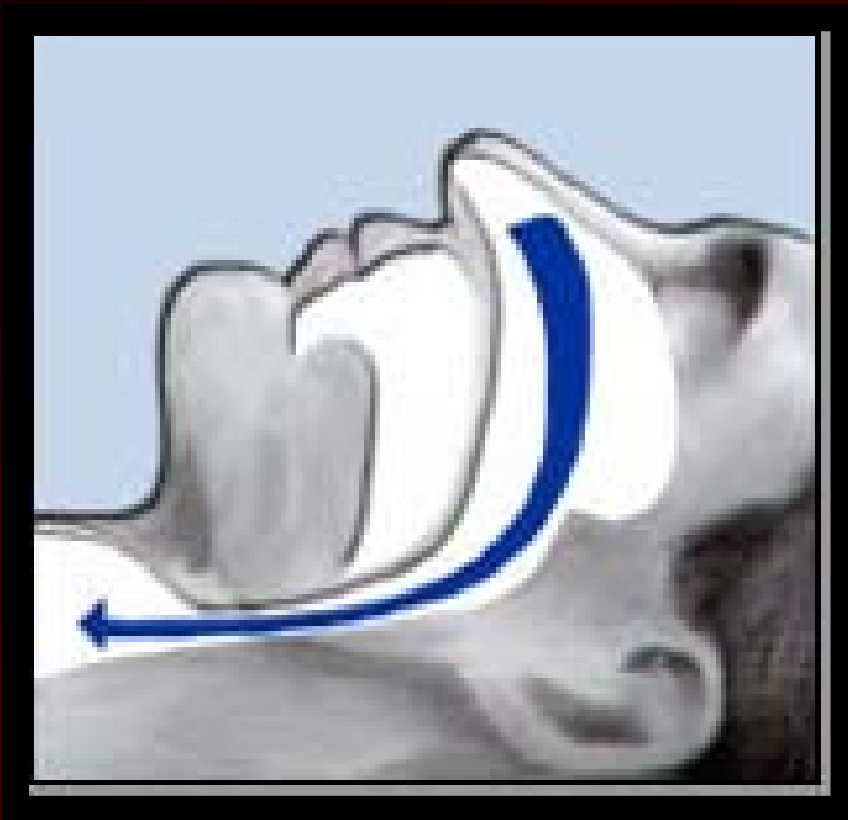
Respiration

O₂ to tissues
CO₂ from tissues

Airway	Airway adjuncts
Ventilation	Ventilator
Gas exchange (lung)	Oxygen
Circulation	...
Gas exchange (tissue)	...

Top priority!

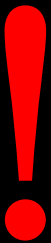
Airway



Blocked Airway

Unconsciousness
Secretions / blood
Foreign body
Trauma, tumor, ...

**All critically ill
patients!**



Assess
Treat
Maintain & re-assess

Airway Assessment

- Listen

Snoring? Gurgling? No sound?

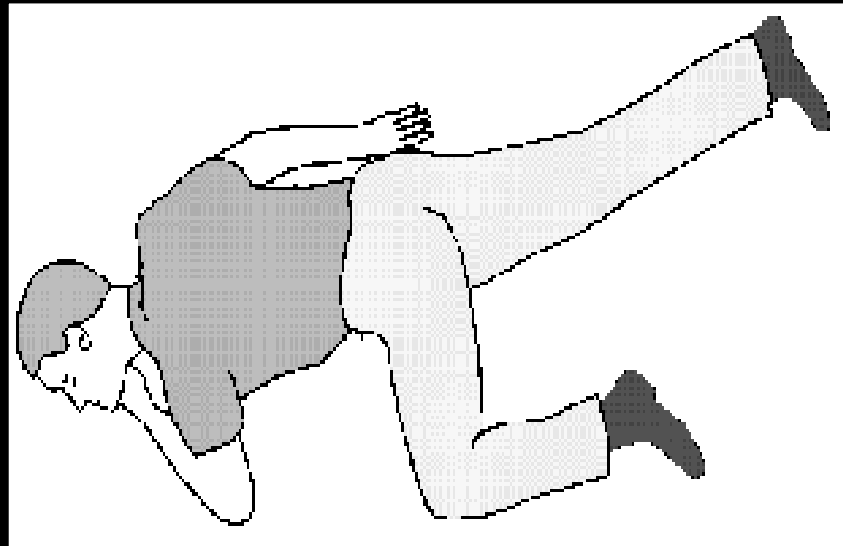
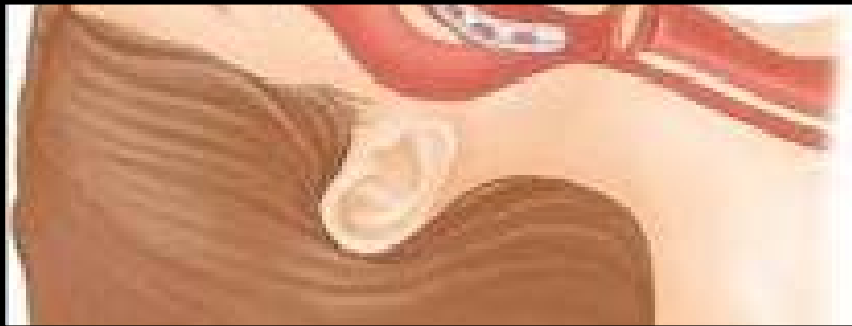
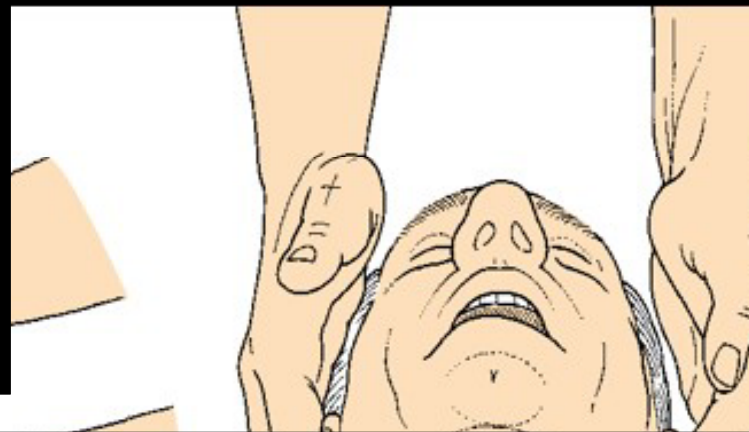
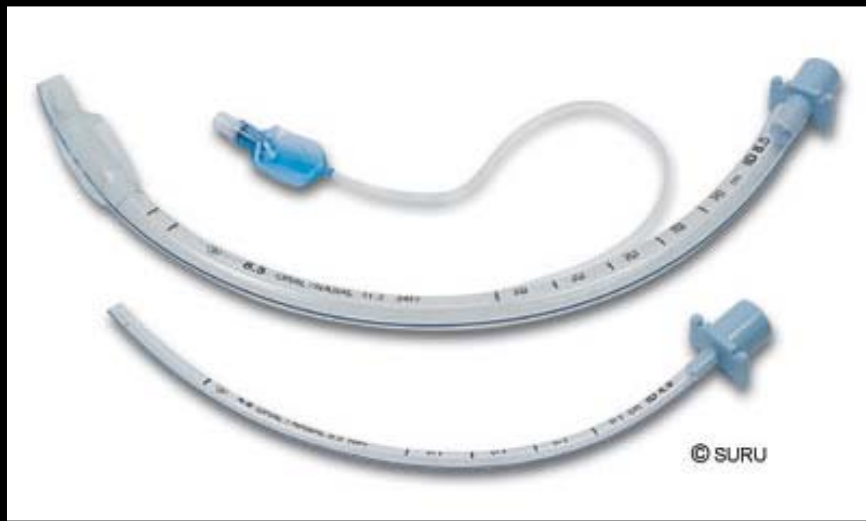
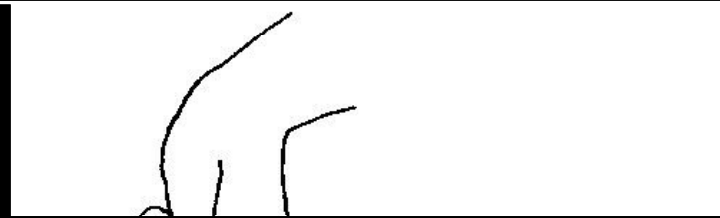
- Observe

Distress? Foreign body? Secretions?
(Cyanosis? Chest movement?)

- High level of suspicion

Unconscious? Disease progress?

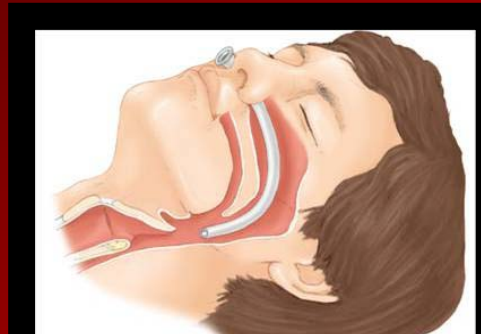
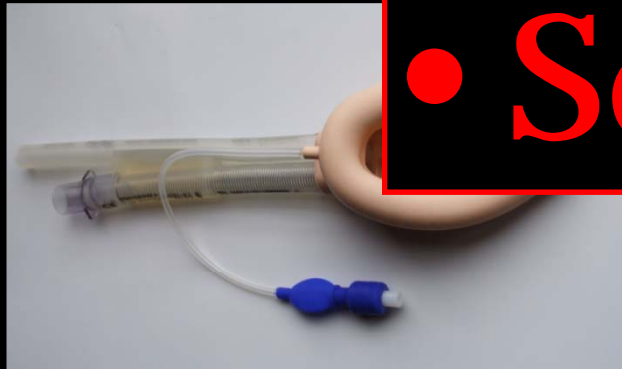
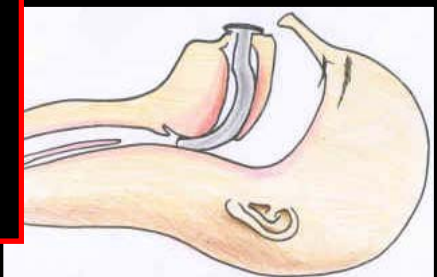
Αιτιολογία



Airway Adjuncts

- Nasopharyngeal airway
- Oropharyngeal airway (guedel)
- Laryng
- Intuba

• **Aspiration**
• **Security**



Ventilation / Breathing

- Spontaneous
- Manual bag
- Ventilator

Airway paramount!

Ventilation Assessment

- Subjective
Ask! Distress?

Frequency!

POX!

- Objective
Distress? Cyanosis? Chest movement? Consciousness?
Accessory muscles? Nasal flaring? Chest wall indrawing?
Unable to feed? Frequency? Volumes?

- Measure effect
POX (O₂), Capnography (CO₂), ABG

Frequency

- Count for at least 30 seconds

- Too high frequency

Hypoxia (airway, lung problem), anaemia, pain, fever, malaria, acidosis, anxiety

- Too low frequency

Drugs, gasping

• Neonate	up to 60
• Infant	up to 50
• Child under 5	up to 40
• Adult	up to 20

POX

Use it!

Trust it!

95% or above

Treat

No contraindications!

- Oxygen (O₂)

 - Nasal prongs

 - Mask (more than 5 litres/min)

- Ventilation

 - Ambu bag

- Underlying disease

 - Inhaled salbutamol for asthma

 - Pneumonia, malaria, trauma, anaemia, etc

Ventilator

- Pressure Control

Must check volume!

A pressure is set on the ventilator and (hopefully) a volume is given to the patient

- Volume Control

Must check pressure!

A volume is set on the ventilator and (hopefully) it's delivered with tolerable pressure



Airway & Breathing

Top Priority!
Call for help!

1. Assess
2. Treat
3. Re-assess

POX!

O₂!

The End

