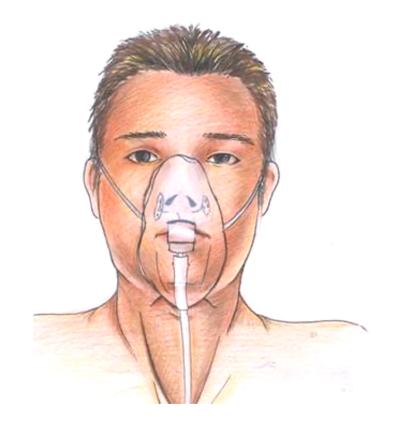
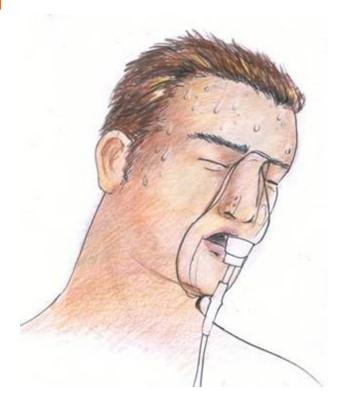
Respiratory monitoring

- Respiratory compensation
 - Tachypnoea
 - Accessory muscles
 - Recesssion
 - Nasal flaring



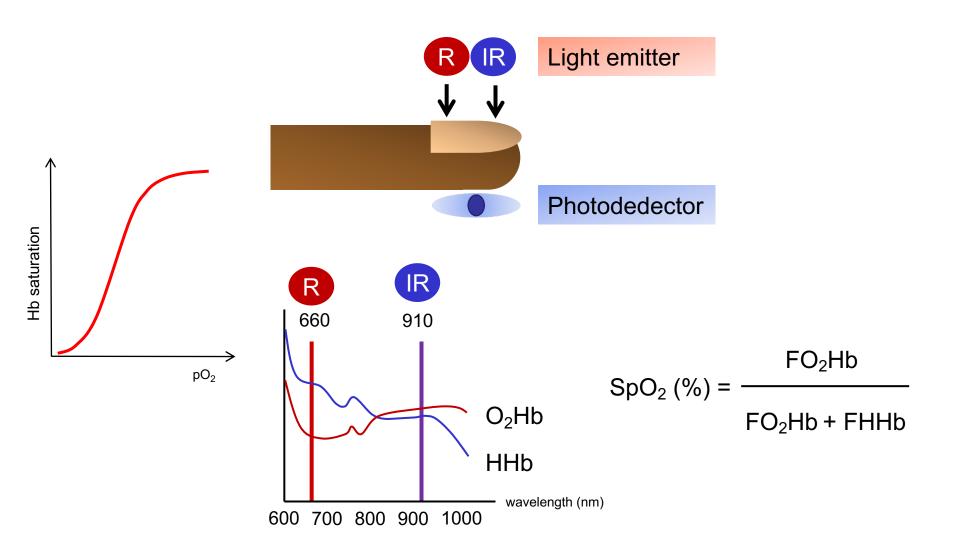
- Respiratory compensation
- Sympathetic stimulation
 - ↑HR
 - − ↑BP (early)
 - sweating



- Respiratory compensation
- Sympathetic stimulation
- Tissue hypoxia
 - Altered mental state
 - ↓HR and ↓BP (late)

- Respiratory compensation
- Sympathetic stimulation
- Tissue hypoxia
- Haemoglobin desaturation
 - Cyanosis (FHHb > 50g/L)

Pulse oximetry





Treat the cause

Supportive treatment

Oxygen therapy



Non-invasive ventilation



Mechanical ventilation



Supportive treatment: Oxygen therapy



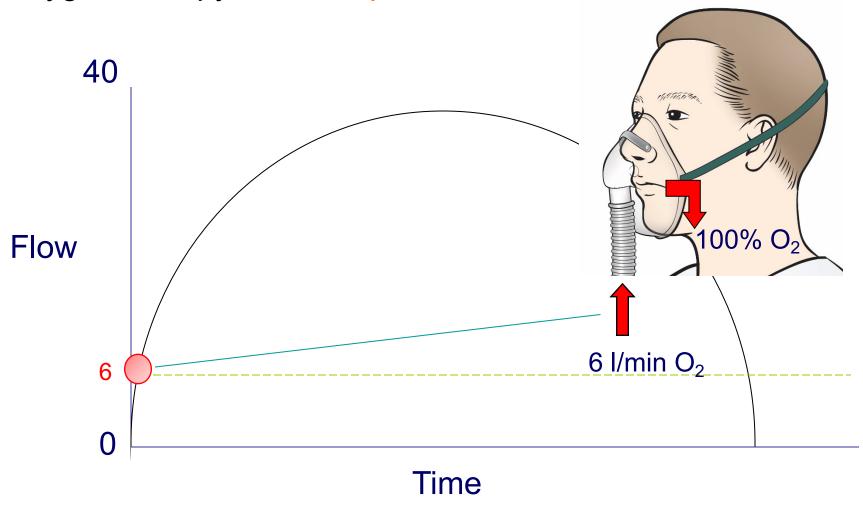


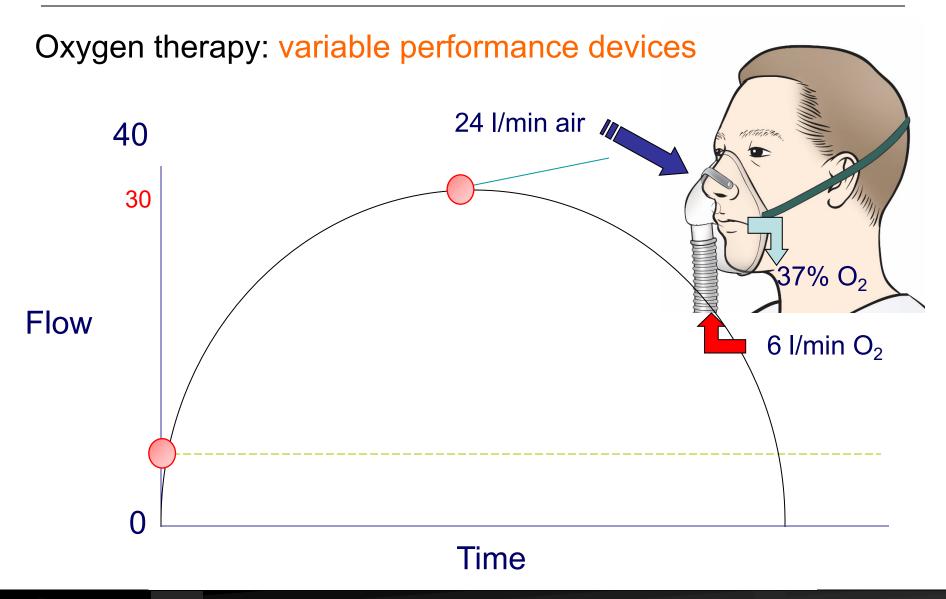
Variable performance devices



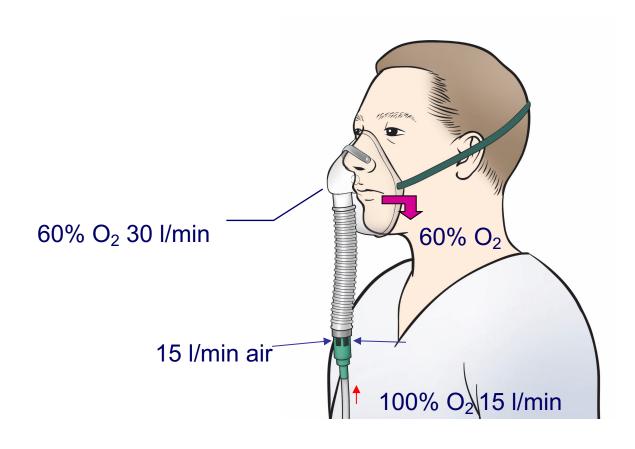
Fixed performance devices

Oxygen therapy: variable performance devices



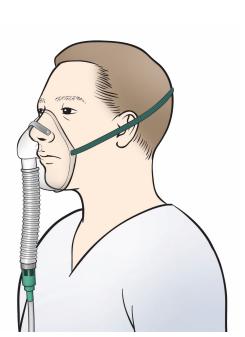


Oxygen therapy: fixed performance devices

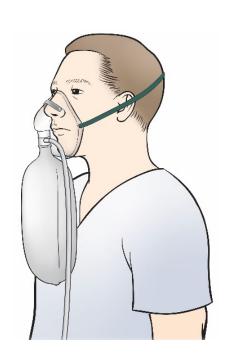


Oxygen therapy: fixed performance devices

Venturi mask



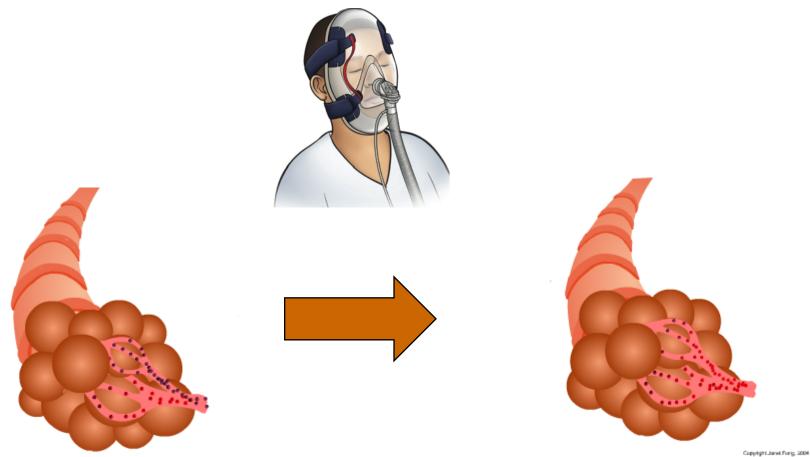
Non-rebreather face mask



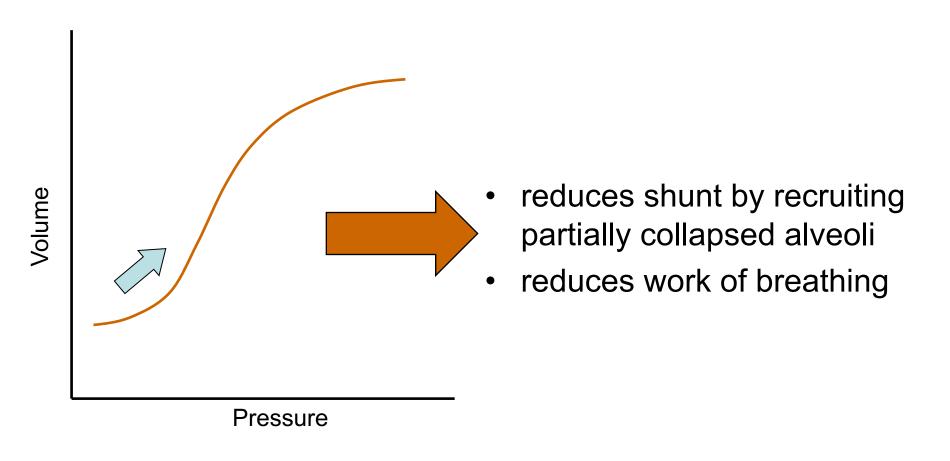
Bag valve resuscitator



Supportive treatment: Non invasive ventilation

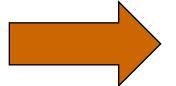


Supportive treatment: Non invasive ventilation



Supportive treatment: mechanical ventilation





Decision to ventilate

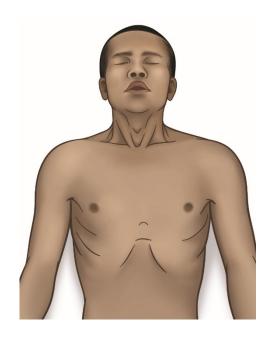
- complex
- multifactorial
- no simple rules

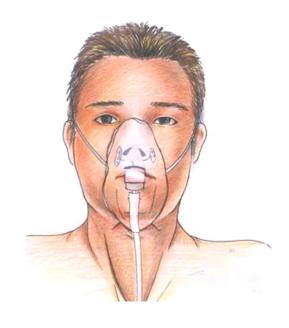
Supportive treatment: mechanical ventilation

Factors to consider

Severity of respiratory failure







Supportive treatment: mechanical ventilation

- Severity of respiratory failure
- Cardiopulmonary reserve

Supportive treatment: mechanical ventilation

- Severity of respiratory failure
- Cardiopulmonary reserve
- Adequacy of compensation
 - ventilatory requirement

Supportive treatment: mechanical ventilation

- Severity of respiratory failure
- Cardiopulmonary reserve
- Adequacy of compensation
 - ventilatory requirement
- Expected speed of response
 - underlying disease
 - treatment already given

Supportive treatment: mechanical ventilation

- Severity of respiratory failure
- Cardiopulmonary reserve
- Adequacy of compensation
 - ventilatory requirement
- Expected speed of response
 - underlying disease
 - treatment already given
- Risks of mechanical ventilation

Supportive treatment: mechanical ventilation

- Severity of respiratory failure
- Cardiopulmonary reserve
- Adequacy of compensation
 - ventilatory requirement
- Expected speed of response
 - underlying disease
 - treatment already given
- Risks of mechanical ventilation
- Non-respiratory indication for intubation