

Chapter 9: Airway, Respiration and Artificial Ventilation



Physiology of Breathing



Ventilation- the movement of air in & out of the lungs.

Inhalation- the active part of ventilation, requiring energy.

During inhalation, the diaphragm & intercostal muscles contract, intrathoracic pressure decreases & creates a vacuum.



Exhalation- the passive part of ventilation, requiring no energy.

During exhalation, the diaphragm & intercostal muscles relax, thorax size decreases & air is compressed out of the lungs.



Airway obstruction- anything that blocks the airway structure leading to the alveoli that prevents effective ventilation.

Causes of obstruction: tongue, fluid, swelling & foreign bodies.

SYMPTOMS OF HYPOXIA



Regulating ventilation- The need for O_2 changes based on activity, illness, injury, etc. Methods of controlling O_2 delivery are changing rate of breathing, increasing/decreasing tidal volume of breaths.

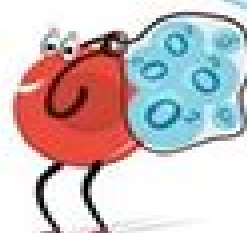
Hypoxia - inadequate delivery of O_2 to the cells.

Early- restlessness, anxiety, irritability, dyspnea, & tachycardia

Late Indications- altered LOC, severe dyspnea, cyanosis, & bradycardia

Carbon Dioxide drive- the body's primary monitoring system for breathing status, monitors CO_2 in blood & cerebrospinal fluid (CSF).

Hypoxic drive- CO_2 drives backup, typical in COPD due to high CO_2



Oxygenation- the delivery of O_2 to the blood. Ventilation is required but doesn't ensure oxygenation, for ex, smoke inhalation.

Respiration- the exchange of O_2 & CO_2 . Time: the heart & brain become irritable almost immediately. Brain damage begins within about 4 mins, & permanent damage within 6 mins.

Assessment

Look, listen, feel: chest rise/fall, talking, lung sounds, breathing.



Normal Respiratory Rates

Age	Breaths per minute (bpm)
1-12	12-20

Respiration And Artificial Ventilation Worksheets

Ellen Hillegass



Respiration And Artificial Ventilation Worksheets:

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