

ANATOMY HUB



| Respiratory System | |
|---------------------------------------|---|
| Trachea | Windpipe |
| Bronchi | Branches of the trachea |
| Lungs | Organs for gas exchange |
| Diaphragm | Muscle that contracts and relaxes to breathe |
| Alveoli | Small air sacs where gas exchange occurs |
| Capillaries | Small blood vessels that carry oxygen and carbon dioxide |
| Pharynx | Part of the throat where food and air pass |
| Larynx | Voice box |
| Epiglottis | Flap that prevents food from entering the trachea |
| Tracheal Cartilage | Ring of cartilage that keeps the trachea open |
| Surfactant | Substance that reduces surface tension in the alveoli |
| Respiratory Membrane | Thin barrier between alveoli and capillaries |
| Partial Pressure | Pressure exerted by a single gas in a mixture |
| Diffusion | Movement of molecules from high to low concentration |
| Oxygenation | Process of adding oxygen to the blood |
| Deoxygenation | Process of removing oxygen from the blood |
| Gas Exchange | Transfer of oxygen and carbon dioxide between the lungs and the body |
| Respiratory Quotient | Ratio of carbon dioxide produced to oxygen consumed |
| Respiratory Rate | Number of breaths per minute |
| Tidal Volume | Amount of air inhaled or exhaled during a normal breath |
| Vital Capacity | Total amount of air that can be inhaled and exhaled |
| Residual Volume | Amount of air remaining in the lungs after a normal exhalation |
| Functional Residual Capacity | Amount of air remaining in the lungs after a normal exhalation plus the amount of air that can be inhaled |
| Inspiratory Capacity | Amount of air that can be inhaled after a normal exhalation |
| Minute Volume | Total amount of air inhaled or exhaled per minute |
| Alveolar Ventilation | Amount of fresh air reaching the alveoli per minute |
| Dead Space | Amount of air that does not reach the alveoli |
| Physiological Dead Space | Amount of air that does not reach the alveoli plus the amount of air that is in the dead space |
| Respiratory Efficiency | Ratio of alveolar ventilation to minute volume |
| Respiratory Control | Process of regulating breathing |
| Chemoreceptors | Sensors that detect changes in blood chemistry |
| Oxygen Saturation | Percentage of hemoglobin molecules that are bound to oxygen |
| Partial Pressure of Oxygen | Pressure exerted by oxygen in a mixture |
| Partial Pressure of Carbon Dioxide | Pressure exerted by carbon dioxide in a mixture |
| Respiratory Acidosis | Condition where the blood becomes too acidic |
| Respiratory Alkalosis | Condition where the blood becomes too basic |
| Hypoxemia | Low oxygen levels in the blood |
| Hypercapnia | High carbon dioxide levels in the blood |
| Hypocapnia | Low carbon dioxide levels in the blood |
| Respiratory Distress Syndrome | Condition where the lungs are unable to exchange gases properly |
| Chronic Obstructive Pulmonary Disease | Group of lung diseases that block airflow and make breathing difficult |
| Asthma | Chronic inflammation of the airways |
| COPD | Chronic Obstructive Pulmonary Disease |
| Emphysema | Disease where the air sacs in the lungs are damaged |
| Chronic Bronchitis | Inflammation of the bronchi |
| Restrictive Lung Disease | Group of lung diseases that limit the expansion of the lungs |
| Pneumonia | Infection of the lungs |
| Pneumothorax | Collapsed lung |
| Pulmonary Edema | Fluid in the lungs |
| Pulmonary Hypertension | High blood pressure in the lungs |
| Cor Pulmonale | Right heart failure due to lung disease |
| Respiratory Failure | Inability of the lungs to exchange gases properly |
| Acute Respiratory Distress Syndrome | Severe lung injury |
| ARDS | Acute Respiratory Distress Syndrome |
| Respiratory Support | Use of mechanical ventilation |
| Mechanical Ventilation | Use of a machine to breathe for a patient |
| Invasive Mechanical Ventilation | Use of a tube inserted into the trachea |
| Non-invasive Mechanical Ventilation | Use of a mask or nasal cannula |
| BiPAP | Bilevel Positive Airway Pressure |
| CPAP | Continuous Positive Airway Pressure |
| PEEP | Positive End-expiratory Pressure |
| FiO2 | Fraction of inspired oxygen |
| PaO2 | Partial pressure of oxygen in arterial blood |
| PaCO2 | Partial pressure of carbon dioxide in arterial blood |
| pH | Acidity of the blood |
| HCO3- | Bicarbonate ion |
| H+ | Hydrogen ion |
| Hb | Hemoglobin |
| SaO2 | Oxygen saturation of arterial blood |
| SvO2 | Oxygen saturation of venous blood |
| VO2 | Oxygen consumption |
| V̇E | Minute ventilation |
| V̇A | Alveolar ventilation |
| V̇D | Dead space ventilation |
| V̇T | Tidal volume |
| V̇R | Respiratory rate |
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