**Medical terminology**

**The Respiratory System**

**Respiratory Processes and Functions**

 **1 Breathing:**

 **• Spir/o:** Breathing (e.g., spirometry: measurement of breathing).

 **• -pnea:** Breathing(e.g., apnea: absence of breathing, dyspnea: difficulty breathing).

 **2. Oxygen and Carbon Dioxide:**

 **• Ox/o, Ox/i:** Oxygen (e.g., hypoxia: low oxygen levels in tissues).

 **• Capn/o:** Carbon dioxide (e.g., hypercapnia: excessive carbon dioxide in the blood).

 **3. Gas Exchange:**

 **• Ventil/o:** Ventilation or air movement (e.g., hyperventilation: excessive breathing).

**Diseases and Disorders**

 **1. Upper Respiratory Tract Disorders:**

 **• Rhinitis:** Inflammation of the nasal mucosa.

 **• Sinusitis:** Inflammation of the sinuses.

 **• Laryngitis:** Inflammation of the larynx.

 **2. Lower Respiratory Tract Disorders:**

 **• Bronchitis:** Inflammation of the bronchi.

 **• Pneumonia:** Infection of the lungs.

 **• Asthma:** Chronic inflammation and narrowing of the airways.

 **• Emphysema:** Damage to alveoli, often part of COPD.

 **• Pulmonary Edema:** Fluid accumulation in the lungs.

 **3. Infectious Diseases:**

 **• Tuberculosis (TB):** Bacterial infection of the lungs caused by Mycobacterium tuberculosis.

 **• Influenza:** Viral infection affecting the respiratory tract.

 **4. Obstructive Disorders:**

 **• Obstructive Sleep Apnea (OSA):** Blockage of the airway during sleep.

 **• Chronic Obstructive Pulmonary Disease (COPD):** Chronic lung conditions like emphysema and chronic bronchitis.

 **5. Restrictive Disorders:**

 **• Pulmonary Fibrosis:** Scarring of lung tissue.

 **6. Cancers:**

 **• Lung Cancer:** Malignancy of lung tissue.

 **• Mesothelioma:** Cancer of the pleura, often related to asbestos exposure.

**Diagnostic and Surgical Terms**

 **1. Diagnostic Procedures:**

 **• Spirometry:** Test measuring lung function.

 **• Bronchoscopy:** Visual examination of the bronchi using a bronchoscope.

 **• Thoracentesis:** Removal of fluid from the pleural space.

**2. Imaging:**

 **• Chest X-ray (CXR):** Imaging of the chest.

 **• CT Scan:** Detailed imaging of lung structures.

 **3. Surgical Terms:**

 **• Lobectomy:** Surgical removal of a lung lobe.

 **• Thoracotomy:** Surgical incision into the chest wall.

 **• Pneumonectomy:** Surgical removal of a lung.

**Symptoms**

 **1. Coughing:**

 **• Hemoptysis:** Coughing up blood.

 **• Productive Cough:** Cough that produces mucus.

 **2. Shortness of Breath:**

 **• Dyspnea:** Difficulty breathing.

 **• Orthopnea:** Difficulty breathing while lying down.

 **3. Chest Pain:**

 **• Pleuritic Pain:** Pain caused by pleura inflammation.