**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.