PATHOLOGIES

General Pathology

| COPD (Cardiopulmonary disease) | Chronic. Bronchitis + emphysema= extreme difficulty breathing | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Asthma | | |
| Bronchiectasis | | |
| Emphysema | | |
| Smokers' respiratory syndrome (SRS) | Group of symptoms seen in smokers; cough, wheezing, vocal hoarseness, pharyngitis, difficulty breathing, easily susceptible to respiratory infections | |

Pathology of the URT

| Allergic rhinitis | AKA- |
|-----------------------------------|----------------------------------------------------------------------|
| | Definition: |
| | |
| Acute Respiratory Syndrome of | |
| Children and Infants | |
| croup | |
| | |
| Diphtheria | Acute infectious disease (contagious) of the throat and URT cause by |
| | Diphtheria bacteria, preventable through immunizations |
| Epistaxis | |
| | |
| | |
| Pertussis ("whooping cough") | |
| | |
| rhinorrhea | |
| | |
| | |
| Sinusitis | Inflamed sinuses; sinus infection |
| Upper Respiratory Infection (URI) | AKA- |
| | |

Pathology of the Pharynx/Larynx

| Pharyngitis | |
|-----------------|---------------------------------------------------------------|
| pharyngorrhagia | |
| pharyngorrhea | Discharge of mucus from the pharynx |
| laryngoplegia | |
| laryngospasm | Sudden spasmodic closure of the larynx that closes the airway |

Pathology of the Pharynx/Larynx

| aphonia | |
|------------|---------------------------------------------------------------|
| dysphonia | |
| laryngitis | Inflammation of the larynx; voice loss caused by inflammation |
| | |

Pathology of the Trachea & Bronchi

| Inflammation of the trachea |
|-----------------------------|
| |
| |
| Bleeding from the bronchi |
| |
| |

Diseases of the Pleural Cavity

- Pleurisy -
- Pleuralgia- pain in the pleura or side
- pneumothorax-

Diseases of the Pleural Cavity continued

- **pleural effusion-** abnormal escape of fluid into the pleural cavity that prevents the lung from fully expanding.
- empyema/pyothorax-
- hemothorax- blood in the pleural cavity
- hemoptysis-





Label:

Diseases of the Lungs

- pulmonary edema-
- Acute Respiratory Distress Syndrome (ARDS)- lung failure resulting from pulmonary edema
- atelectasis (collapsed lung)-

Diseases of the Lungs

- pneumorrhagia-
- tuberculosis
 - o Multidrug resistant TB (MDR-TB)-
- Pneumonia-

Main causes of pneumonias are bacteria, viruses, fungi, or inhaled substances like chemicals or vomit.

MANY different kinds:

bacterial pneumonia viral pneumonia lobar pneumonia bronchopneumonia double pneumonia aspiration pneumonia mycoplasma pneumonia Pneumocystis carinii pneumonia

Environmental or Occupational Lung Diseases

| Disease | AKA | Caused by: | |
|----------------|-------------------|--------------------------------------------------------------------------------------------------------------|--|
| pneumoconiosis | N/A | Abnormal condition caused by dust in the lungs developed over years of environmental or occupational contact | |
| anthracosis | | Caused by coal particles in the lungs | |
| asbestosis | N/A | | |
| byssinosis | | Caused by cotton, flax, or hemp dust in the lungs | |
| silicosis | Grinder's disease | | |
| | | | |

- Pulmonary fibrosis- formation of scar tissue that replaces the alveolar walls and makes them stiff.
- Idiopathic Pulmonary Fibrosis (IPF) -
- Cystic fibrosis-

Breathing Disorders:

Draw the pattern from pg 134

| | | nom pg 104 |
|------------------|--------------------------------------------------------------------------------------------------------|------------|
| Eupnea | | |
| Tachypnea | | |
| Bradypnea | | |
| Apnea | | |
| Cheyne-Stokes | | |
| Dyspnea | Aka: Difficult or labored breathing | |
| Hyperpnea | Abnormal increase in the depth and rate of the respiratory movements | |
| Hypopnea | | |
| hyperventilation | Abnormally rapid deep breathing, resulting in decreased levels of carbon dioxide at the cellular level | |

Lack of Oxygen Disorders:

- Airway obstruction -
- Anoxia absence or almost complete absence of oxygen from breathed in gases, arterial blood, or

tissues; can cause irreversible brain damage

- Asphyxia -
- asphyxiation-
- cyanosis- BLUE skin caused by lack of adequate oxygen
- hypoxia-
- respiratory failure- occurs when O2 in the blood become dangerously low!

Sudden Infant Death Syndrome (SIDS)

•

DIAGNOSTIC PROCEDURES

- respiratory rate (RR)-
 - What is a normal rate?=
- pulmonary function tests (PFT's)-
- spirometry- using a spirometer to record the volume of air inhaled or exhaled in PFT's
- **phlegm-** thick mucus secreted by respiratory passages. it is called **sputum** when it is ejected.
- Bronchoscopy-
- Layngoscopy-
- TB test (tuberculin skin test)-
- Chest x-rays- can show pneumonia, lung tumors, pneumothorax, pleural effusion, tuberculosis, and emphysema

The Respiratory System

a. pleural effusion

b. pneumonia





TREATMENTS

Medications:

- bronchodilator- used in asthma attacks to:
- Bronchoconstrictor- what do you think?

Nose and Throat:

- septoplasty- surgical reconstruction of the septum
- **sinusotomy-** incision into the sinus, to treat chronic sinusitis.
- Functional endoscopic sinus surgery (FSS):
- Pharyngoplasty-
- Pharyngostomy-
- Pharyngotomy-
- Laryngectomy-
- Laryngoplasty-
- endotracheal intubation (intubating)- passage of a tube through the nose or mouth into the trachea to establish an airway.

Trachea and Bronchi:

- tracheoplasty-
- tracheorrhaphy -
- tracheotomy-
- tracheostomy- placing a tube into the trachea below a blockage to create an airway. It may be temporary or permanent. Resulting in an

opening called a stoma.

Lungs, Pleura and Thorax:

- pneumonectomy-
- lobectomy-
- pleurectomy-
- **thoracentesis-** puncture of chest wall with needle to obtain fluid from pleural cavity for diagnostic purposes, to drain pleural effusions, or to re-expand a collapsed lung.
- Thoracotomy -
- Thoracostomy -

Respiratory Therapy:

- supplemental oxygen- i.e. nasal canula, or nonrebreather
- Postural drainage-
- Ventilator-
- **respirator-** for prolonged artificial respiration

