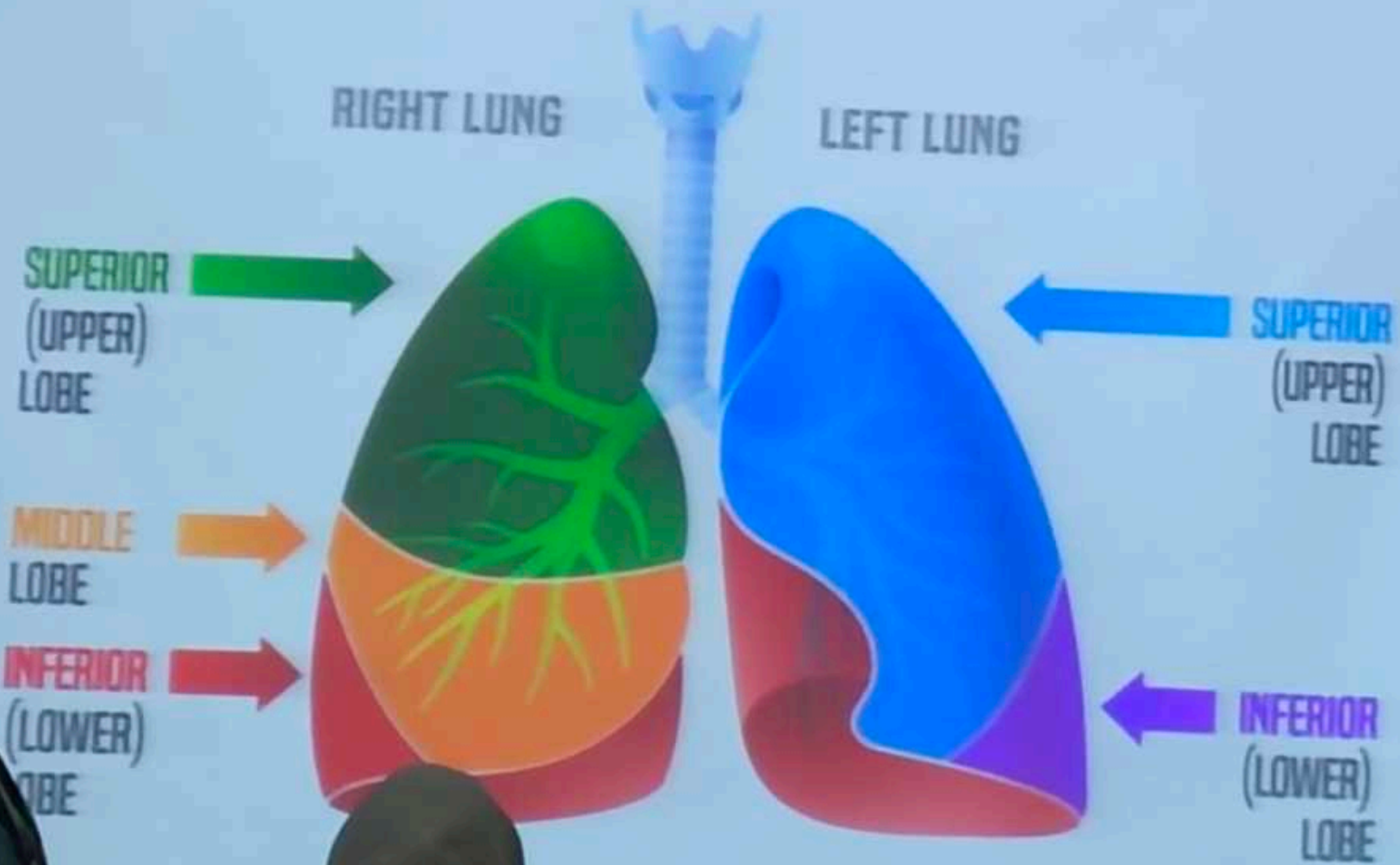
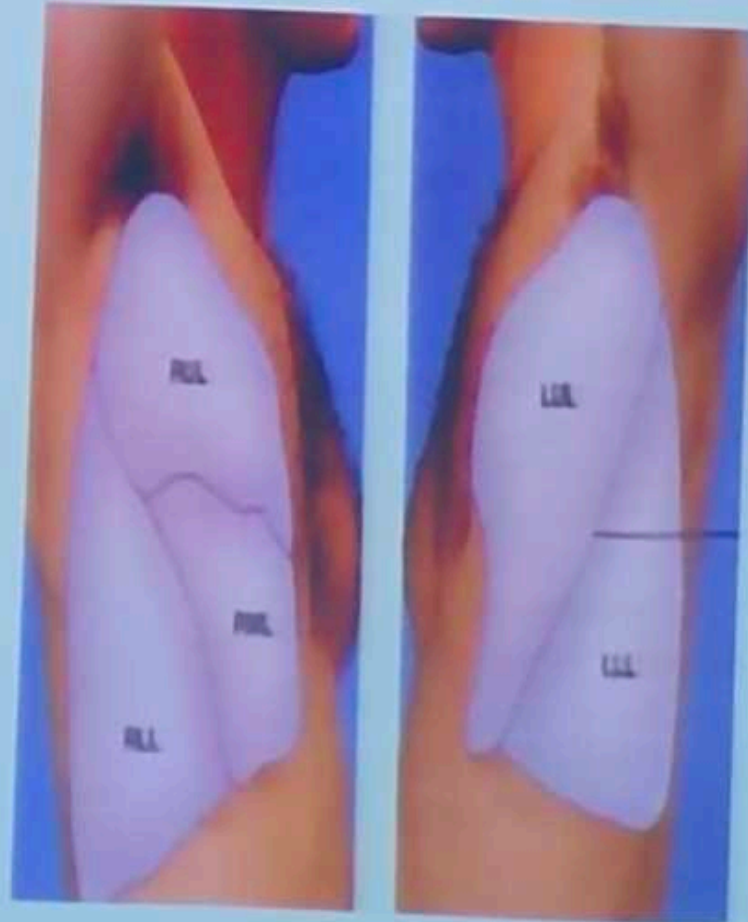
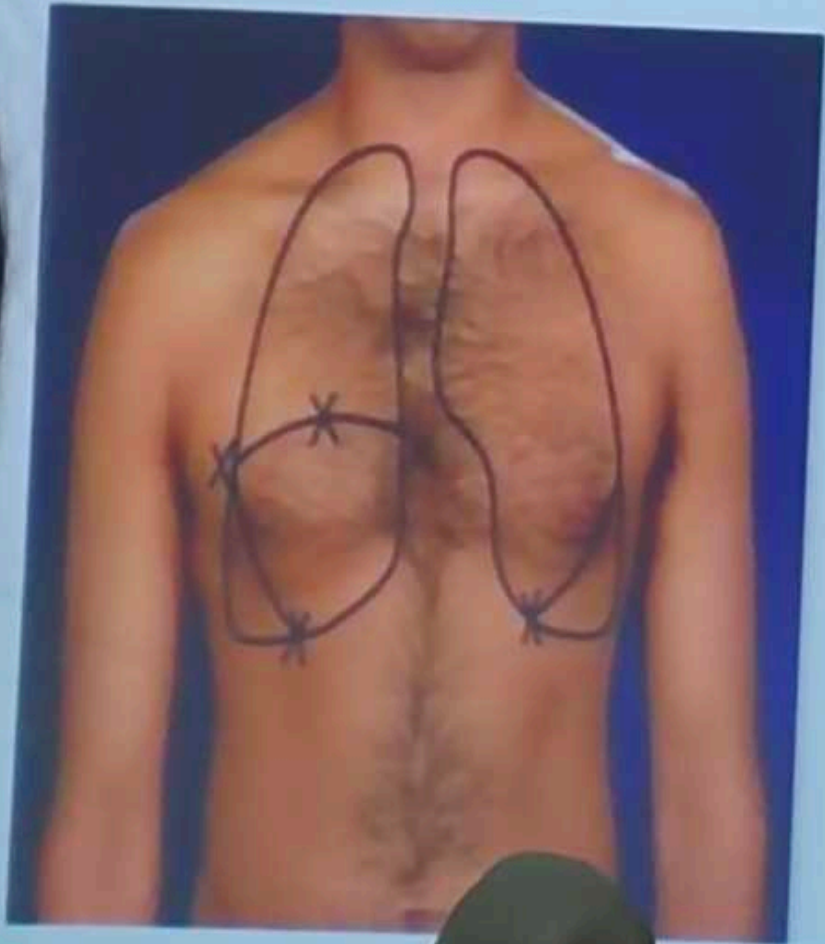


Introduction to Pulmonology

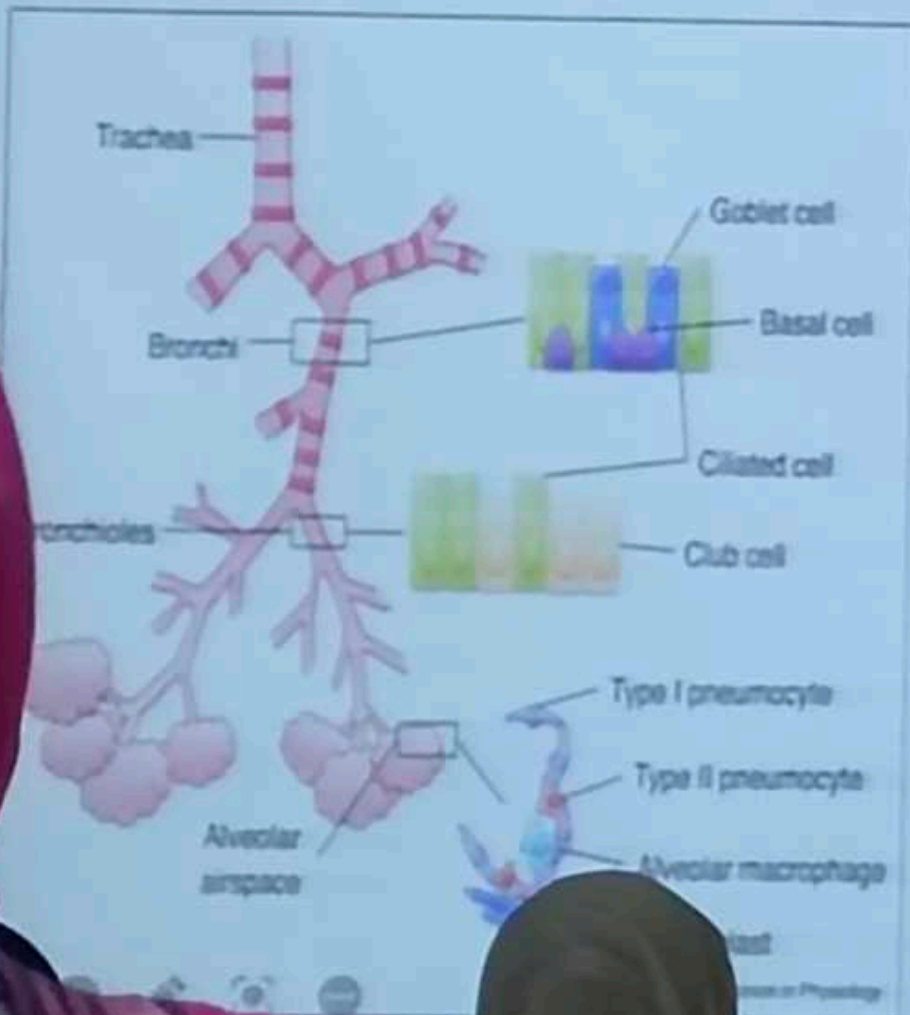
Dr Munaza Javed
Professor of Medicine
M.B.B.S, FCPS, CHPE, CHR

LUNG LOBES



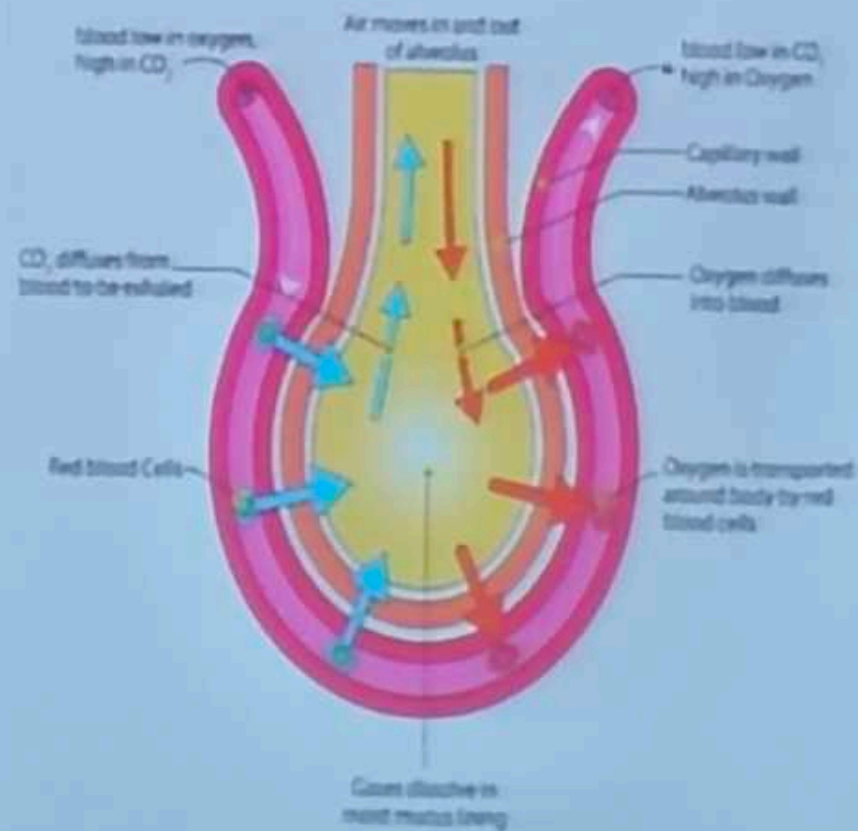


Physiology of Lungs



GAS EXCHANGE AT THE ALVEOLUS

BYJU'S



Symptoms of Respiratory Diseases

■ Cardinal Symptoms

- Cough
- Sputum
- Hemoptysis
- Dyspnea
- Wheezes

Symptoms of Respiratory Diseases

■ Cardinal Symptoms

- Cough
- Sputum
- Hemoptysis
- Dyspnea
- Wheezes
- Chest pain

Symptoms of Respiratory Diseases

■ Other presenting symptoms

- Apnea
- Hoarseness
- Stridor
- Snoring
- Fever
- Night sweating
- Weight loss

Sudden explosive expulsion of air from the lungs to atmosphere through the epiglottis

1. Acute (< 3 wks)
2. Subacute (3-8 wks)
3. Chronic (>8 wks)

Symptoms of Respiratory Diseases

■ Acute cough

- Acute bronchitis
- Pneumonia
- Pulmonary Embolism
- Left ventricular failure

Common causes of chronic cough usually with **a normal** CXR:

1. Upper airway cough syndrome (it is related to allergic, non-allergic or vasomotor rhinitis, naso-pharyngitis, & sinusitis. i.e postnasal drip «PND»)

Symptoms of Respiratory Diseases

■ Sputum

- Bronchiectasis (yellow, green, large amount, more in the morning)
- Lung abscess (Foul smelling, more on lying on the other side of lesion)
- Pneumonia(yellowish, rusty symptoms streaks of blood)
- Pulmonary edema (Pink frothy)



Dyspnoea:

Exertional / at rest

Paroxysmal dyspnea

Bronchial asthma (wheezes, no crackles)

Left ventricular failure (crackles, cardiomegaly)

Orthopnea

Nocturnal dyspnea

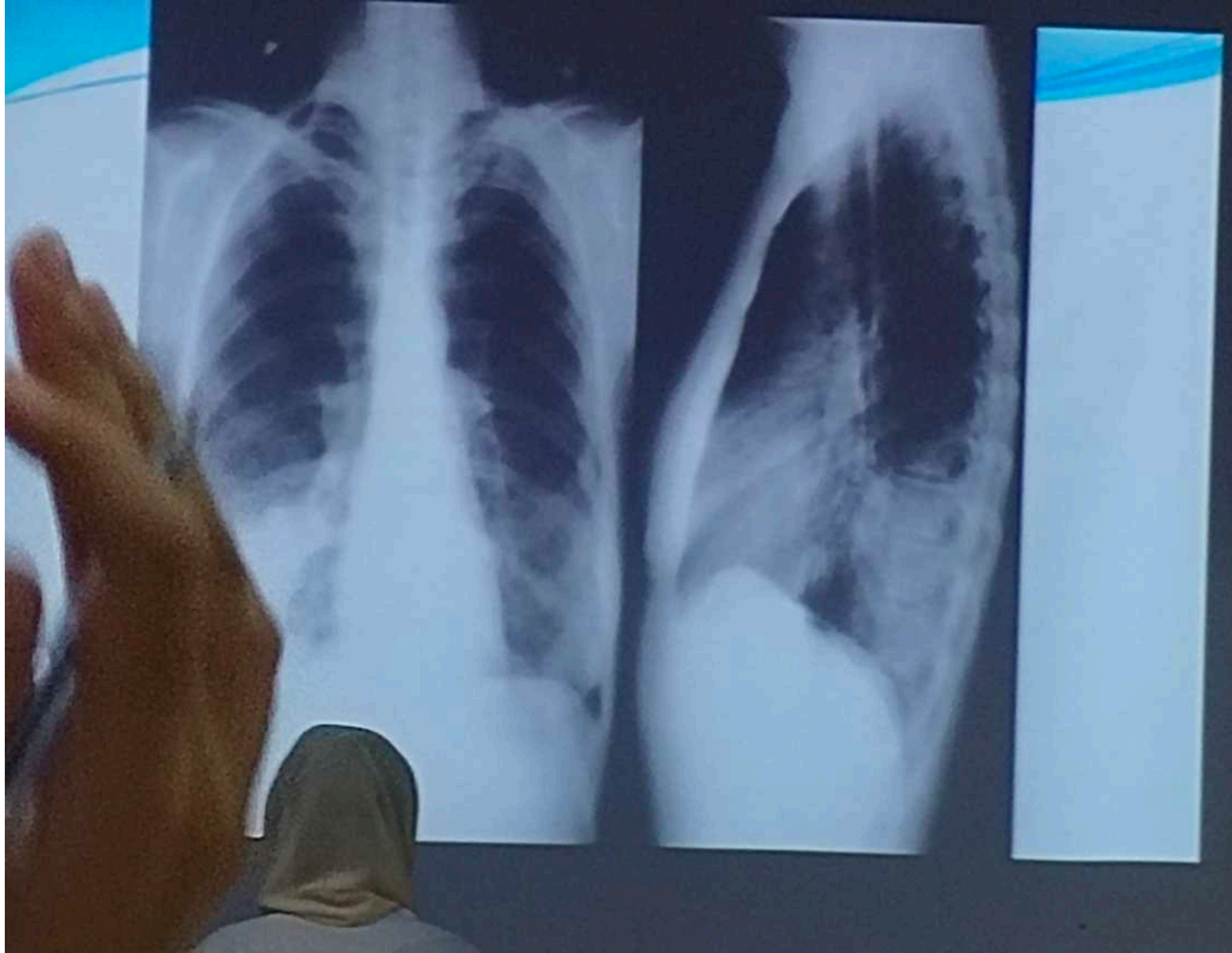
Symptoms of Respiratory Diseases

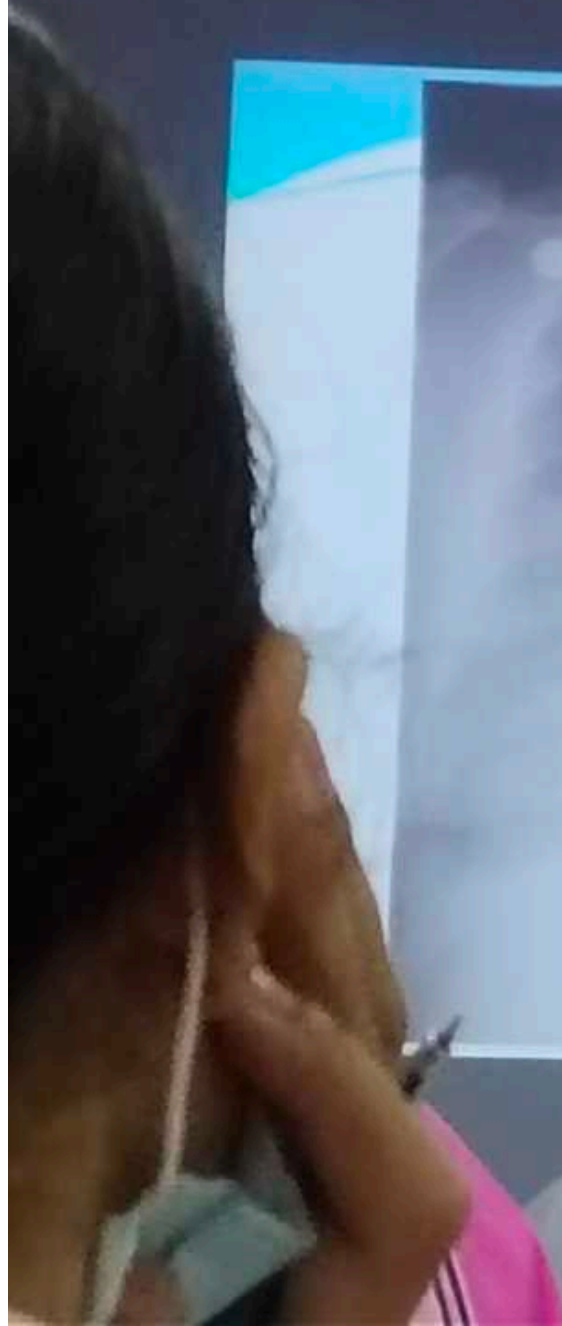
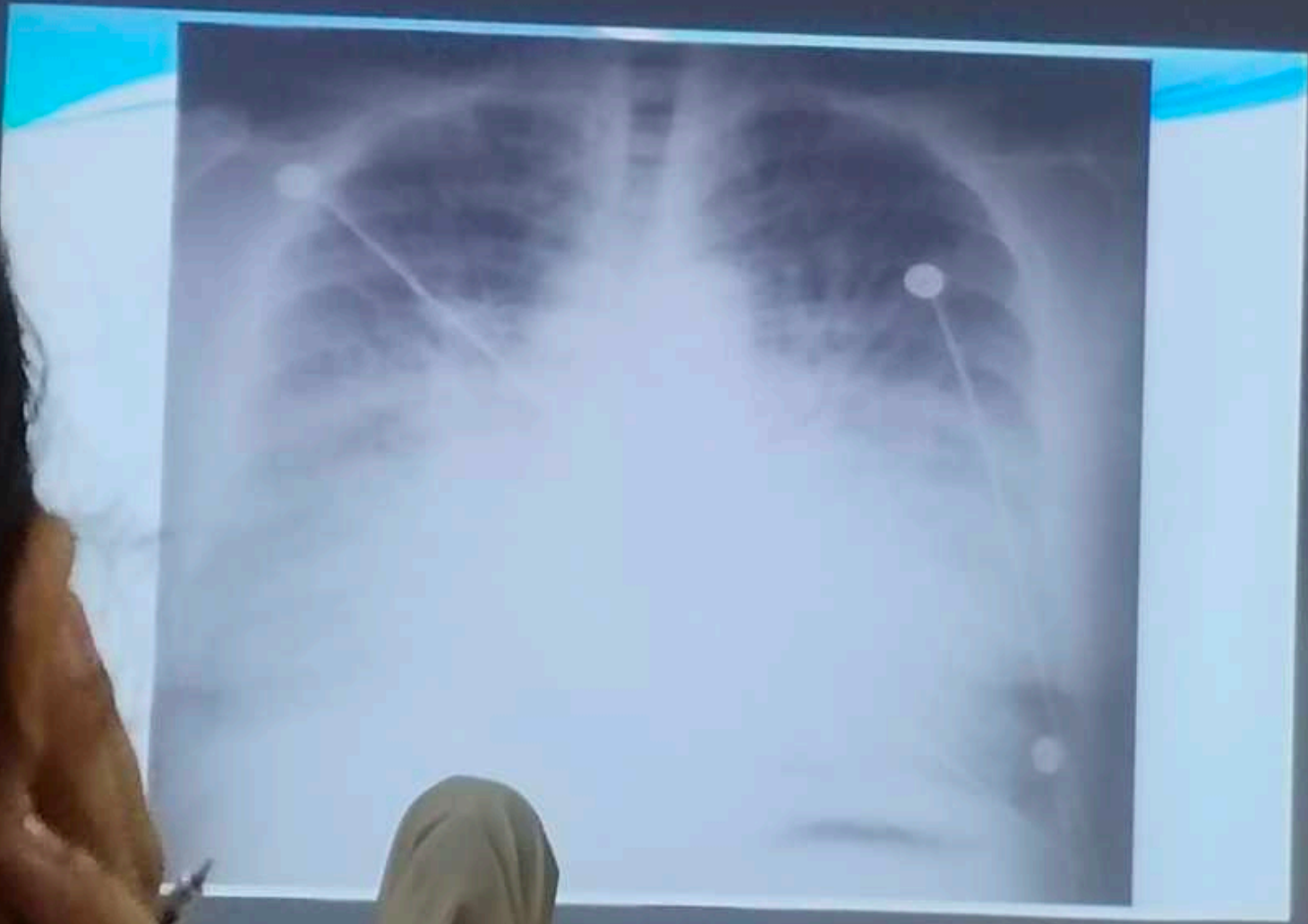
– Acute Sudden (seconds)

- Pneumothorax (Male, COPD, or Tall, thin)
- Pulmonary embolism (Female, Pills)

Signs and Symptoms of Respiratory Diseases

- **Sub acute Dyspnea** (hours to days)
 - Bronchial asthma
 - Pneumonia
 - Massive pleural effusion
 - Pulmonary edema (LVF, MS)

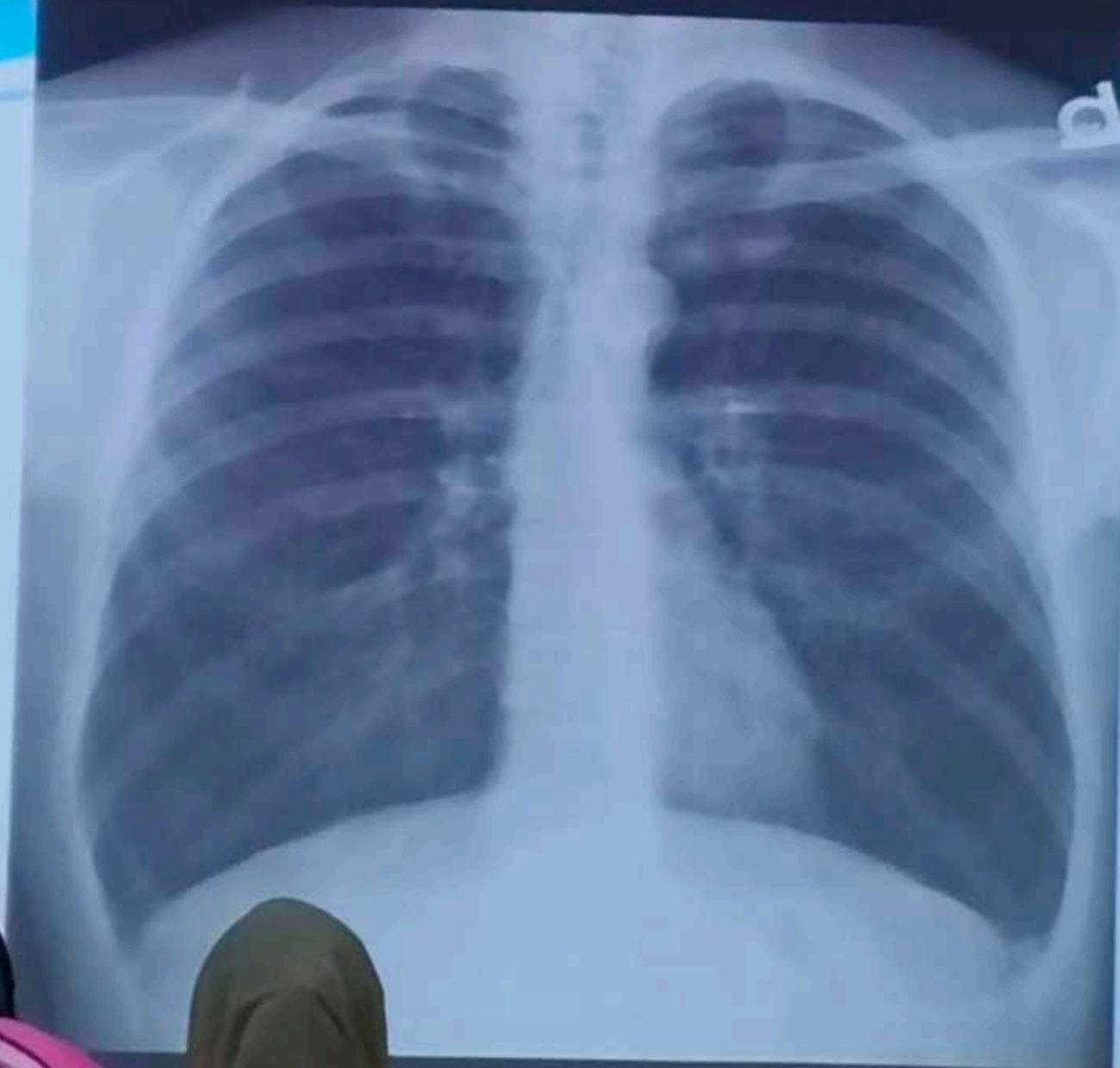




Signs and Symptoms of Respiratory Diseases

- **Chronic dyspnea** (months to Years)

- Chronic bronchitis
- Emphysema
- Pulmonary fibrosis
- Chronic thromboembolism



Signs and Symptoms of Respiratory Disease

■ Hemoptysis

- Massive >200 ml/episode
- Frank (fresh, bright red, no sputum)
- Causes
 - Lung cancer
 - Tuberculosis, Bronchiectasis
 - Pulmonary infarction
 - Pneumonia
 - A/V malformation

Wheeze

Musical, high pitched, whistling sounds, continuous

- air flow limitation

- infection, atopy, physical obstruction

➤ Expiratory

➤ Pan inspiratory

➤ Mono phonic

Polyphonic

Signs and Symptoms of Respiratory Diseases

■ Wheezes (Rhonchi)

- Bronchial asthma
- COPD
- Pulmonary embolism
- Lung cancer
- Bronchiectasis
- LVF - cardiac asthma

Signs and Symptoms of Respiratory Disease

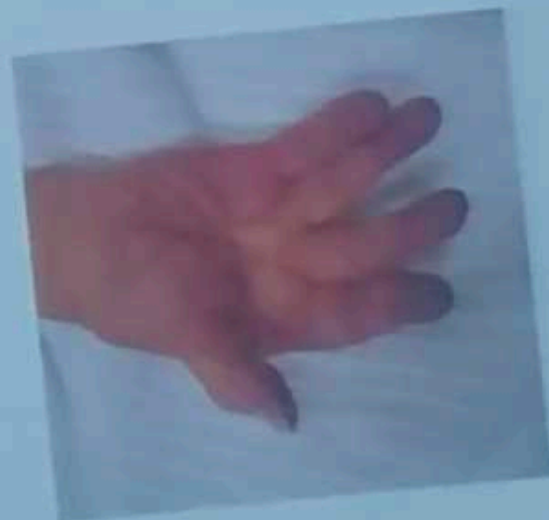
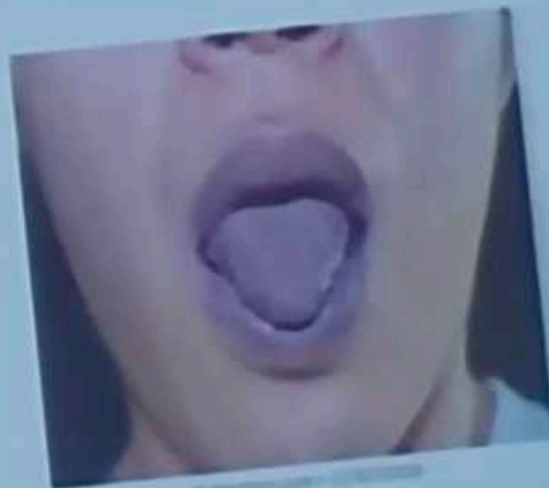
■ Chest pain (pleuritic)

Unilateral chest pain increasing on respiration

- Pulmonary infarction
- Pneumonia
- Acute pleurisy
- Angina pectoris

Signs and Symptoms of Respiratory Diseases

- **Central Cyanosis**
 - COPD, Asthma
 - Pulmonary fibrosis
 - Pneumonia, PE
 - A/V malformation
 - Cardiac Rt to Lt shunts
- **Peripheral cyanosis**
 - Cold weather
 - Low COP



Signs and Symptoms of Respiratory Diseases

■ Clubbing of the fingers and toes

- Bronchiectasis
- Ca lung
- Lung abscess
- Pulmonary fibrosis
- Asbestosis
- Cystic fibrosis



Signs and Symptoms of Respiratory Diseases

Hands examination

- Hypertrophic pulmonary osteoarthropathy Ca Lung
- Rheumatoid hand
 - Rheumatoid arthritis
- Tremors
 - Fine
 - Flapping



B2 agonist
CO2 retention



Signs and Symptoms of Respiratory Diseases

Face

- Horner's syndrome
 - Ptosis
 - Enophthalmos
 - Miosis
 - Anhidrosis
- Malar rash



Signs and Symptoms of Respiratory Diseases

- Head and Neck
- JVP
 - CHF (Pulsatile)
 - SVO (Non pulsatile)

