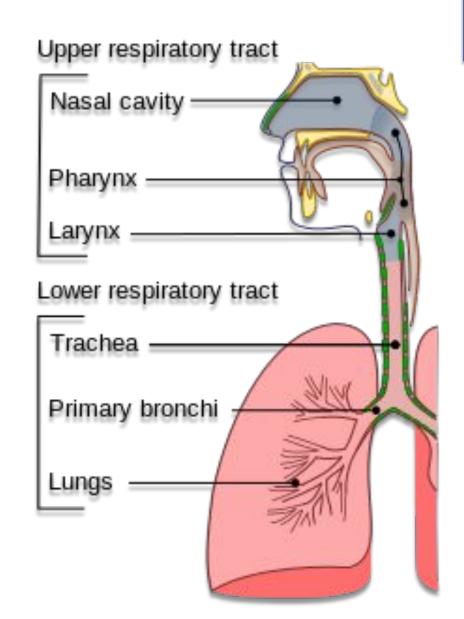
Internal Medicine: Respiratory System

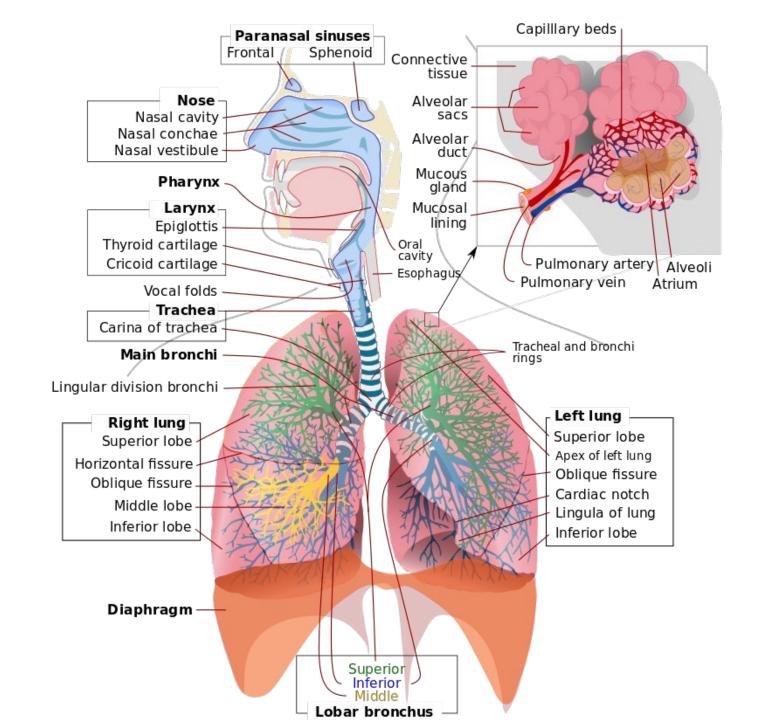
GENERAL EXAMINATION OF A PATIENT

Aims of the meeting

- TO WIDEN YOUR MEDICALVOCABULARY ABOUTRESPIRATORY SYSTEM
- TO FORM A PRESENTATION OF PHYSICAL EXAMINATION
- ☐ TO SOLVE A LITTLE PROBLEM

Structure of Respiratory tract





Approach to the patient with Disease of the Respiratory System

Clinical presentation

History taking (risk factors):

- Smoking history (the number of years of smoking, the number of packs per day;
 if the patient no longer smokes the interval; since smoking cessation)
- Inhaled dust (pneumoconiosis, such as asbestosis, silicosis, etc.)
- Inhaled organic antigen (especially from molds and animals)
- Contacts with individuals with known respiratory infections (especially tuberculosis
- Residence in an area with endemic pathogens (histoplasmosis, blastomycosis)

Clinical presentation

Dyspnea

- acute (laryngeal edema, acute asthma)
- subacute (asthma, chronic bronchitis)
- chronic (chronic obstructive lung disease, chronic cardiac disease)
- Hemoptysis
- inflammatory
- neoplastic
- Chest pain (in case of the parietal pleura involvement)
- Cough (as normal physiological reflex or due to underlying cause)

Clinical presentation

Couth

Respiratory tract infection (common cold, acute bronchitis, pneumonia, pertussis, tuberculosis)

Reactive airway disease (asthma, chronic bronchitis, smoker's cough)

Gastroesophageal reflex (cause of GERD)

Air pollution (tobacco smoke, irritant gases, dampness in a home)

Foreign body (including swallowing difficulties)

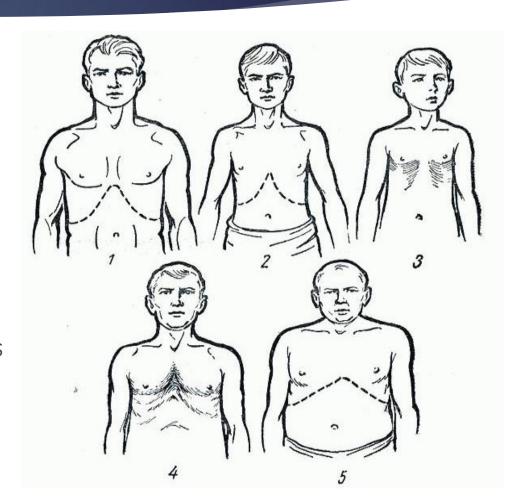
Psychogenic cough (as habit or 'tic-cough')

Inspection

- Rate and pattern of breathing
- Depth and symmetry of lung expansion

What can you detect?

- Rapid breathing
- Labored breathing
- Associated with the use of accessory muscles
- Asymmetric expansion
- Visible abnormalities of the thoracic cage



Palpation

- Symmetry of lung expansion
- Vibration: decrease/absent (liquid, endobronchial obstruction)
 - increase (pulmonary consolidation)
- Tenderness (costochondritis, rib fracture)

Percussion

- Resonant (normal sound of air contain structures as lung)
- Dull (sound of consolidated lung)
- Hyperresonant (emphysema or air in the pleural space)

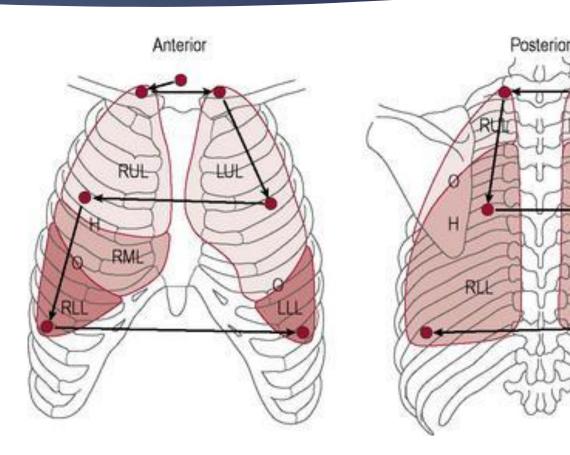
Auscultation

Normal breath sound

Vesicular breath sound

Extra sound (abnormal)

- Bronchial breath sound
- Crackles (≈crepitation)
- Wheezes (the same as sibilant rhonchi)
- Pleural friction rub



Name	Continuous/discontinuous	inspiratory/expiratory	Associated conditions
Wheeze or rhonchi	continuous	expiratory or inspiratory	asthma, chronic obstructive pulmonary disease, foreign body
Stridor	continuous	mostly inspiratory	epiglottitis, foreign body, laryngeal oedema
Pleural friction rub	discontinuous	expiratory and inspiratory	inflammation of pleura, lung tumors
Crackles (crepitations)	discontinuous	inspiratory	pneumonia, pulmonary edema, tuberculosis, bronchitis

Imaging studies

Routine radiography (posteroatnerior and lateral views)

- A localized region of <u>opacification</u> involving the pulmonary parenchyma
- Radiolucency (with a cyst/bulla, or emphysema)





Imaging studies

Other methods

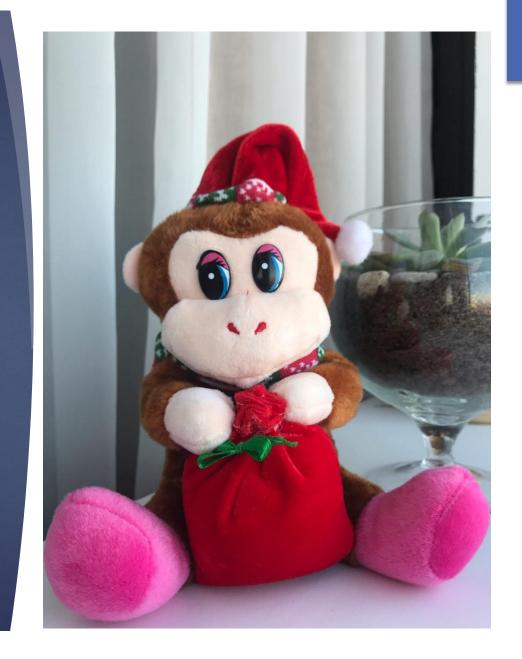
- CT
- MRI
- PET
- Scintigraphy imaging
- Pulmonary angiography
- Ultrasound

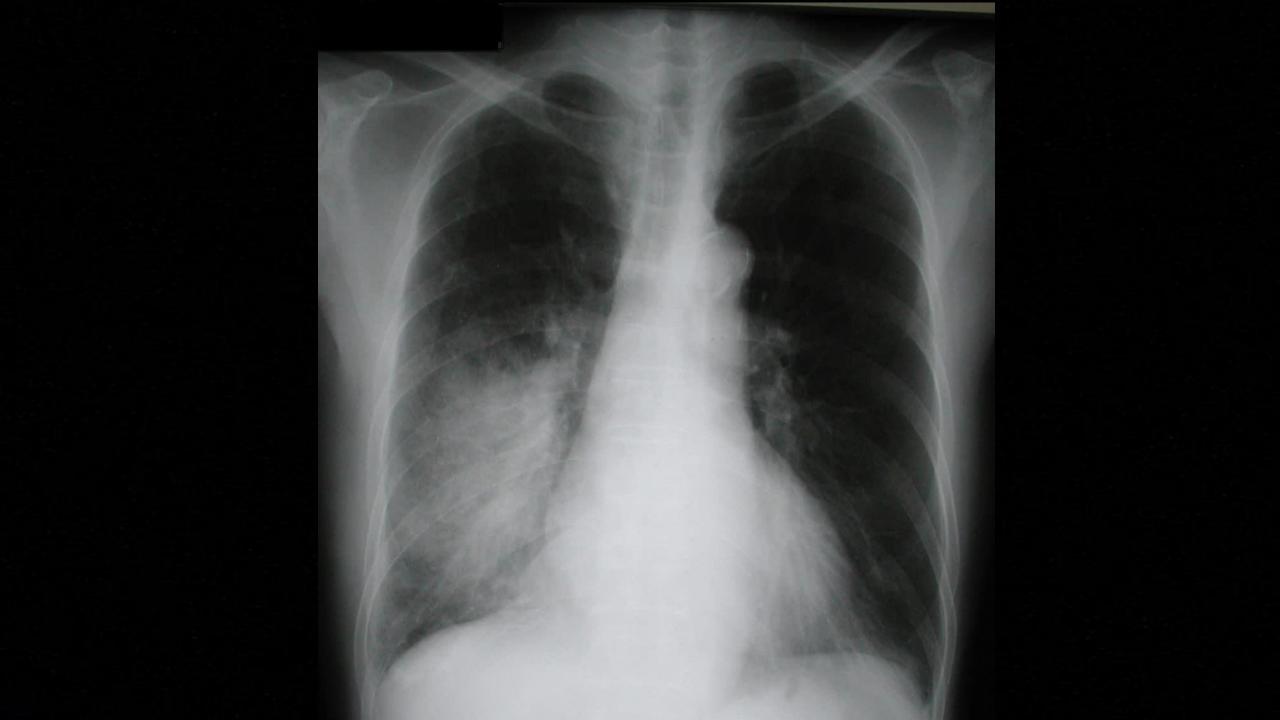
Any questions? Suggestions?

Thank you for your attention!

"It seems to me I have some problems... again"

© Clara





We Were Born to Fly

Hello again
You've been alone awhile
And I can use a friend
Your shades are down
And I've been waiting here for you to come around
And it's not about forgiveness
Cause it's all about the love anyhow

We were born to fly
To reach beyond the sky
To carry on forever after
You and I
You keep my faith alive
With you I'm not afraid
To rise and fall and face disaster
You and I

We were born to fly To reach beyond the sky To carry on forever after You and I You keep my faith alive With you I'm not afraid To rise and fall and face disaster You and I We were born to fly We were born to fly We were born to fly To reach beyond the sky To carry on forever after You and I You keep my faith alive With you I'm not afraid To rise and fall and face disaster You and I