

COPD clinical case

DR Maha Alsadik

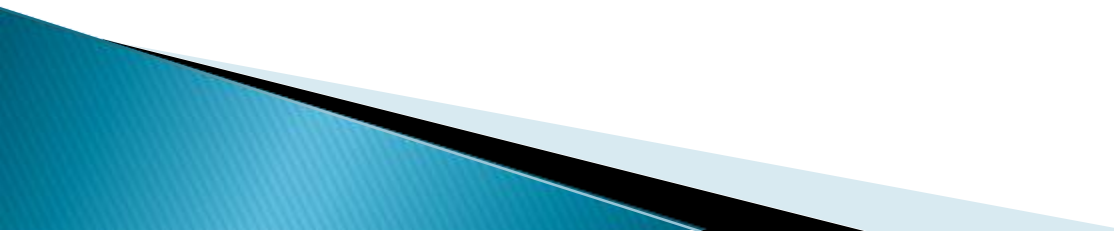
Personal history

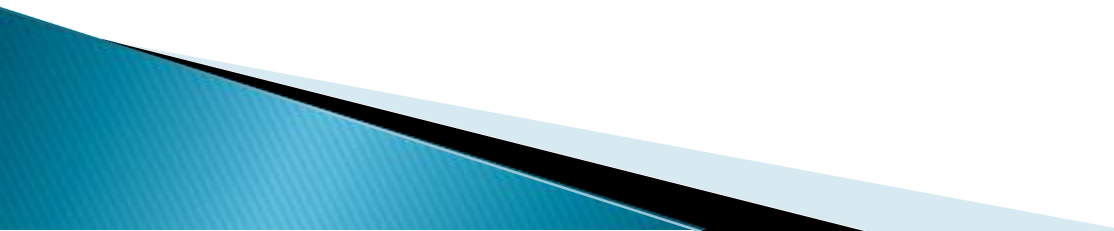
- ▶ Ahmed salem male pt ,70 years old is a backer,from Egypt,married has 4 offspring the youngest is 25 years old .

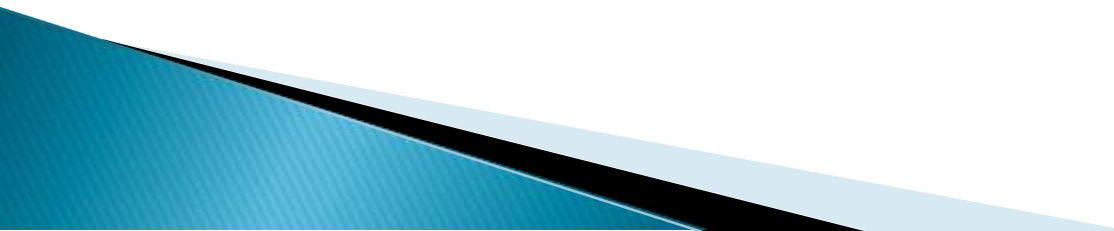
C I O

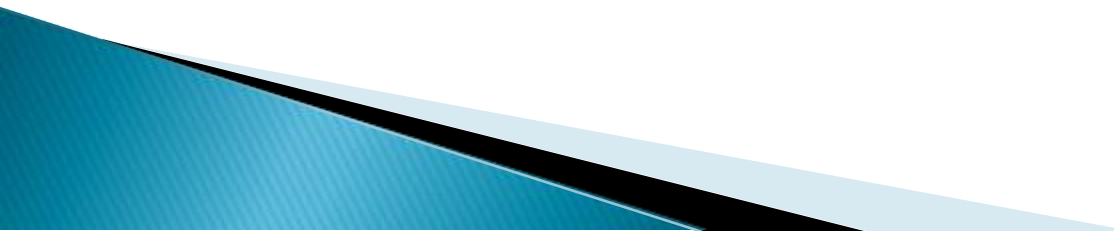
- ▶ Cough ,Shortness of breath, wheezes and expectoratation 5 days ago

Present history

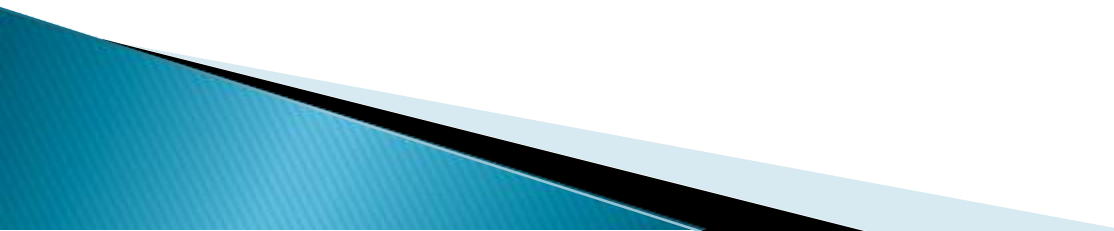
- ▶ The condition started 20 years ago by paroxysmal attacks of **cough, dyspnea (grade 2 mMRC)** and **wheeze** of gradual onset and progressive course
 - ▶ Attacks precipitated by dust exposure and exertion and relieved by medications and rest
- 

- ▶ 10 years later ,pt developed **productive cough** with small,whititsh ,mucoid,odourless sputum
 - ▶ Which increased in the morning
 - ▶ There was many attacks of **fever,fatigue and yellow expectoration** which improved by antibiotics
 - ▶ His **dyspnea** was progressive increased till became grade 4 mMRC without orthopnea or PND
- 

- ▶ Now pt has **wheeze** even between attacks
 - ▶ The pt sought medical advice ,investigated by chest x ray , CT chest ,PFT,sputum analysis and culure
 - ▶ He was treated by inhalers and mucolytes
 - ▶ He advised to stope smoking
- 

- ▶ No chest pain
 - ▶ No Hemoptysis
 - ▶ No Pressure manifestations
 - ▶ No symptoms of other system affection
- 

Past and drug history

- ▶ No history of T.B
 - ▶ No history of operations
 - ▶ No history of drugs intake except bronchodilators and mucolytics
 - ▶ No history of drug allergy
- 

Social & Family history

No family history of similar disease

No family history of TB or asthma

Smoking history : active smoker (pack year 30)

Occupational history : he was baker

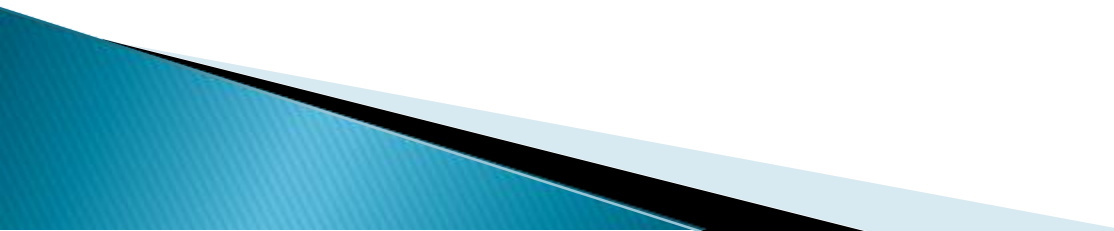
General examination

- ▶ Pt is fully conscious , oriented for time ,place and person , co-operative, average intelligence , average mood and memory

- ▶ **Vital signs**

Temperature	37
BL. pressure	120 90
Pulse	70 min
RR	16 min

General examination

- ▶ Pt looks dyspnic but No cyanosis
 - ▶ No pallor ,No jaundice
 - ▶ Puffiness of eye lid
 - ▶ No working ala nasi or pursing lips
 - ▶ Neck vein pulsating non congested
 - ▶ **UL** No flapping tremors ,No clubbing but there is fine tremors
 - ▶ **LL** No oedema or clubbing
- 

Local examination

□ Inspection

- bilateral equal movement
- barrel shaped chest.
- Central trachea ,No trills sign
- Low, flat diaphragm causing costal margin retraction on inspiration (Hoover sign)
- No skin abnormality
- Epigastric pulsation



Normal Chest vs. Barrel-Shaped Chest

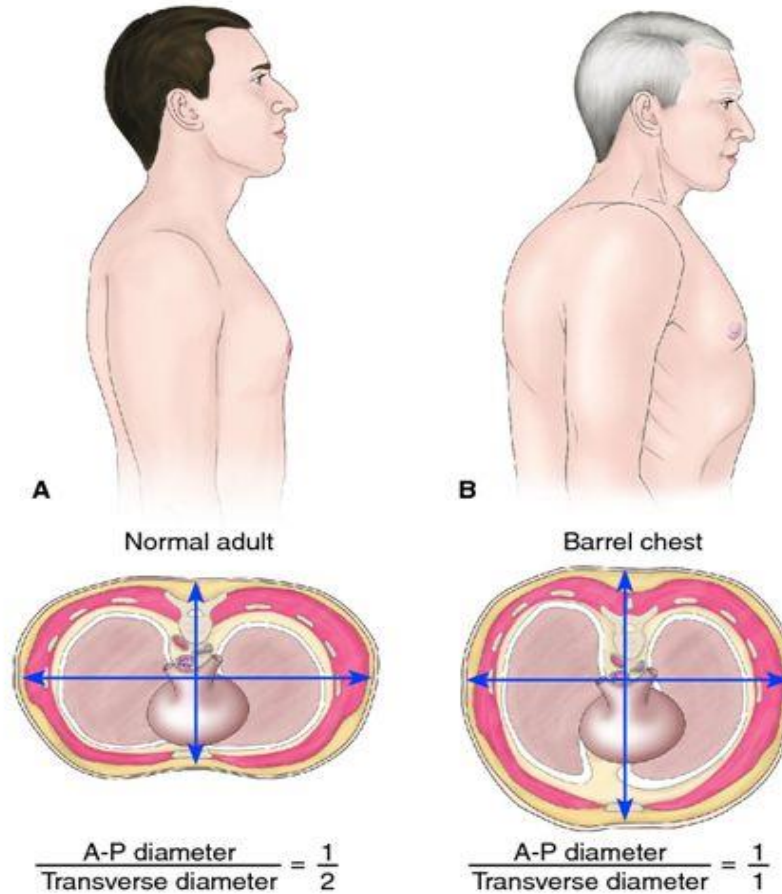


Figure 24-3

Littens' sign



palpation

- ✓ Central trachea ,decrease tracheal length
- ✓ No tracheal tug
- ✓ Bilateral limitation of chest expansion
- ✓ TVF equal on both sides
- ✓ Palpable rhonchi
- ✓ Palpable liver due to
Depression by flat diaphragm(not tender)

Tracheal position



Figure 14 a,b,c. Determining position of trachea, palpating centrally and then to each side.

Limited chest expansion

4-Chest expansion

- Place your hands on the patient's chest, inferior to the nipples
- Wrap your fingers around either side of the chest
- Bring your thumbs together in the midline, so that they touch
- Ask patient to take a deep breath
- Observe movement of your thumbs, they should move apart equally
- If one of your thumbs moves less, this suggests reduced expansion on that side



Abnormal Chest expansion:
Less than 2 cm

Reduced expansion can be caused by
lung collapse / pneumonia

Respiratory Examination

Chest Expansion

It is important when examining the chest to check for symmetry when the patient is breathing.

To do this place your hands at the level of the 10th rib as shown in the photograph.

Ask the patient to breathe in deeply, watch your thumbs move apart, this should be equal.

Also feel the rib cage expand and contract.

This can be done on the anterior of the chest or the posterior

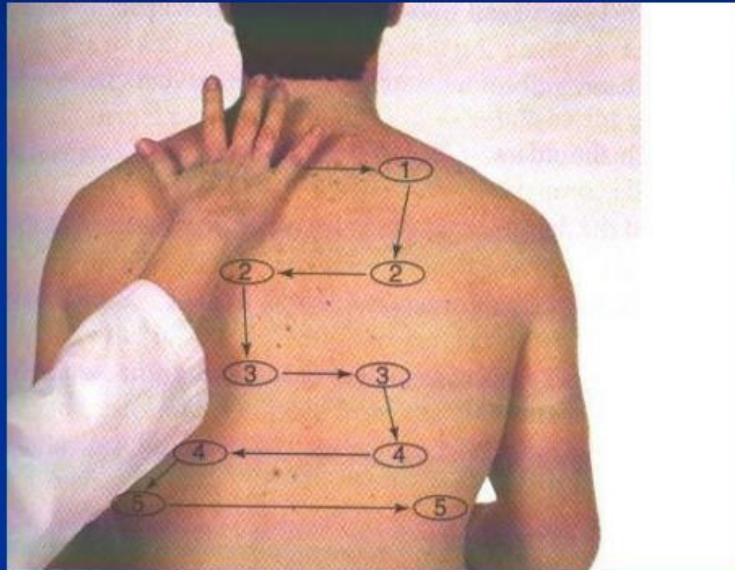


A photograph of a man from the waist up, shirtless, with his arms raised behind his head. A person's hands are visible, holding a white tape measure around the man's chest. The background is a plain, light-colored wall. The image is overlaid with a semi-transparent yellow and orange graphic on the left side.

**CHEST
EXPANSION
TEST FOR
ANKYLOSING
SPONDYLITIS**

TVF Examination

Posterior Chest

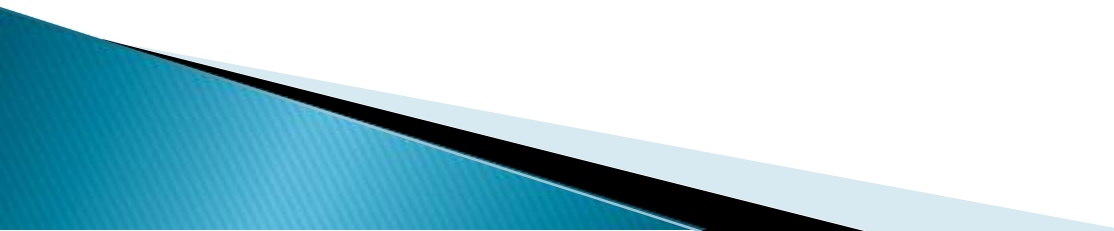


Tactile fremitus

- Place ulnar edge on skin; client repeats 99
- Symmetry is expected
- Decreases if sound transmission is obstructed

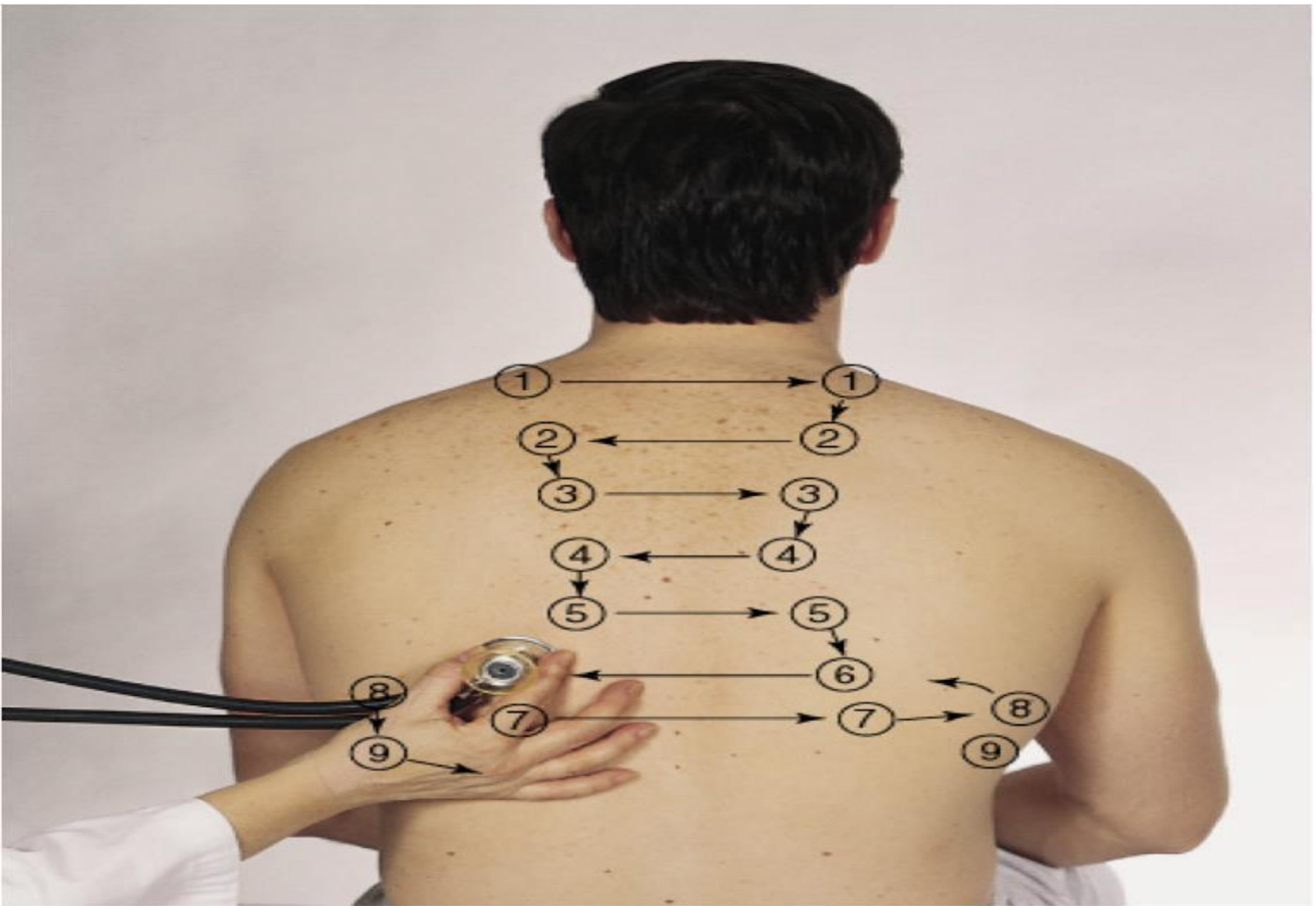
Palpate chest wall

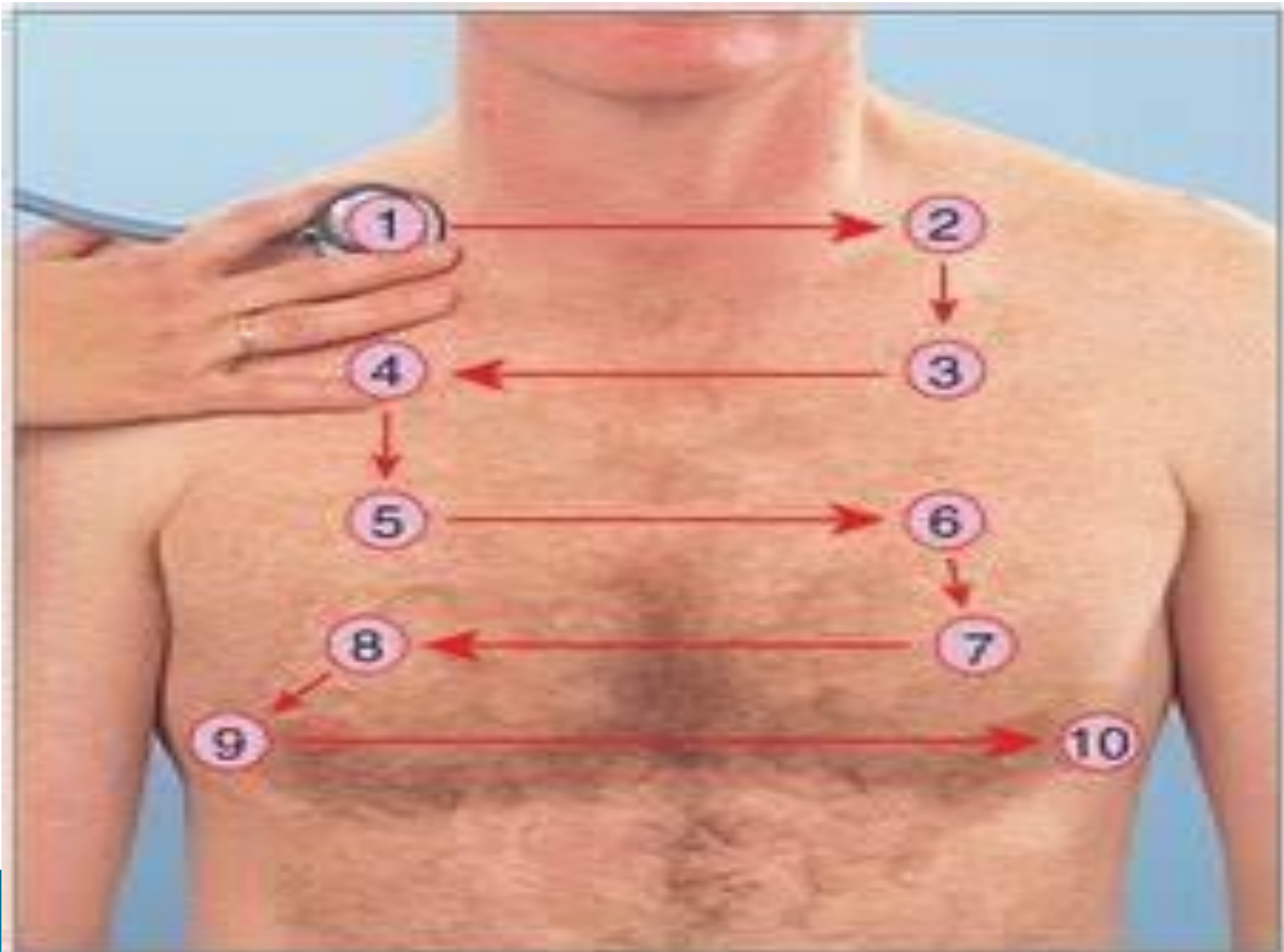
Percussion

- ▶ **Hyperresonant with encroachment on hepatic and cardiac dullness**
 - ▶ **Hepatic dullness at 7th space MCL**
 - ▶ **Resonant bare area of heart**
- 

Auscultation

- ✓ *distant heart sound.*
- ✓ *Diminished Vesicular breath sound with Prolonged expiration with generalized wheezing.*





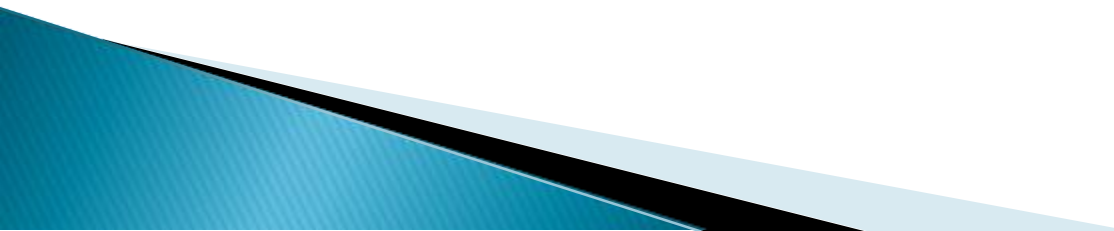
Other systems

- ▶ **Normal**

What about your diagnosis



Chronic obstructive pulmonary disease (COPD) is a type of progressive lung disease characterized by long-term respiratory symptoms and airflow limitation.





Thank you