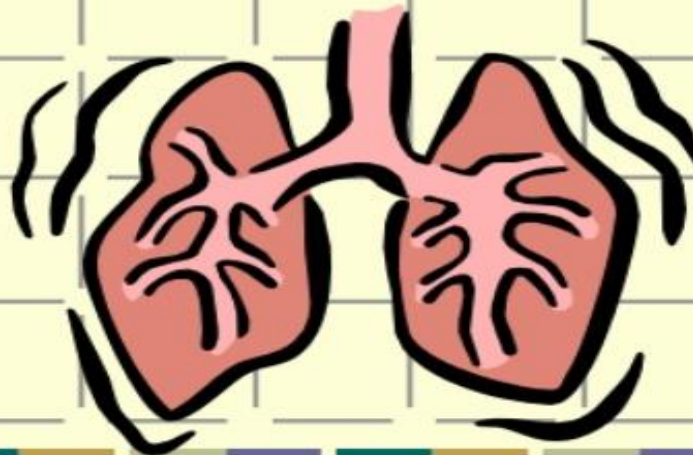


**Anatomy**

**Lec:3**

**Dr. Bashar Alaraji**

## Thorax and Lungs



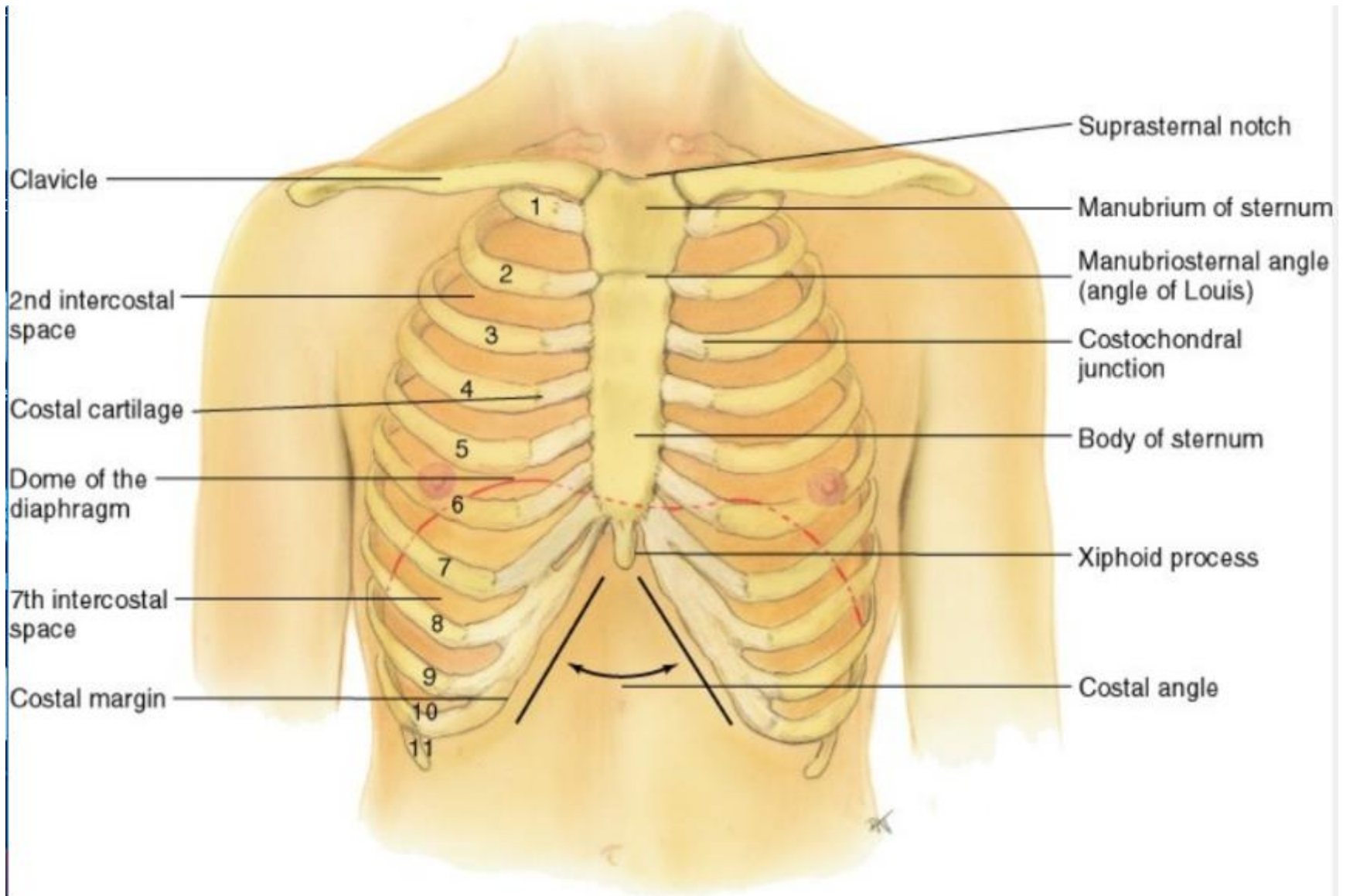
# Thoracic Cage /Cavity

Shape- bony, conical shape, narrower at top borders – it is defined by:

- Sternum – 3 parts: manubrium, body, xiphoid process
- Ribs – 12 pairs, 1<sup>st</sup> seven attach to the sternum (costal cartilages) Ribs 8,9,&10 attach to the costal cartilage above, Ribs 11 & 12 are floating ribs
- 12 Thoracic vertebrae
- Diaphragm – the floor, separates the thoracic cavity from the abdomen

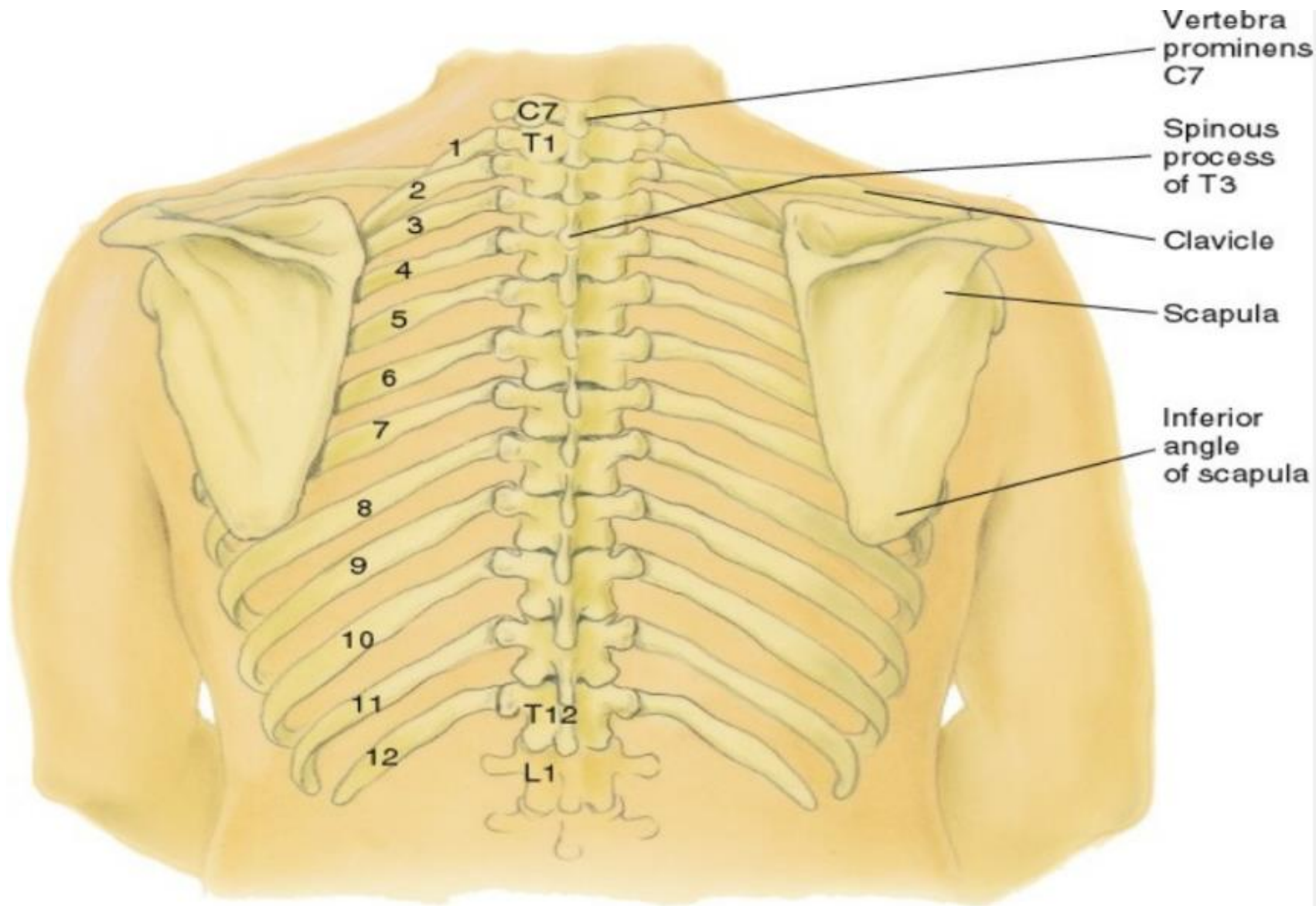
# Anterior Thoracic Landmarks

- Suprasternal Notch – U shaped depression
- Sternum – “breastbone” = 3 parts
  1. Manubrium
  2. Body
  3. Xiphoid process
  - Angle of Louis – manubriosternal angle continuous with the 2<sup>nd</sup> Rib
  - Costal angle- usually 90° or <. (increases when rib cage is chronically overinflated)



# Posterior Thoracic Landmarks

- Vertebra Prominens – Flex head, feel most prominent bony projection at base of neck = C7 next lower one is T1
- Spinous Processes – spinal column-
- Scapula – symmetrical , lower tip at the 7 -8<sup>th</sup> Rib
- 12<sup>th</sup> Rib = midway b/t spine & side



# Reference Lines

## • Anterior Chest

- Midsternal line
- Midclavicular line

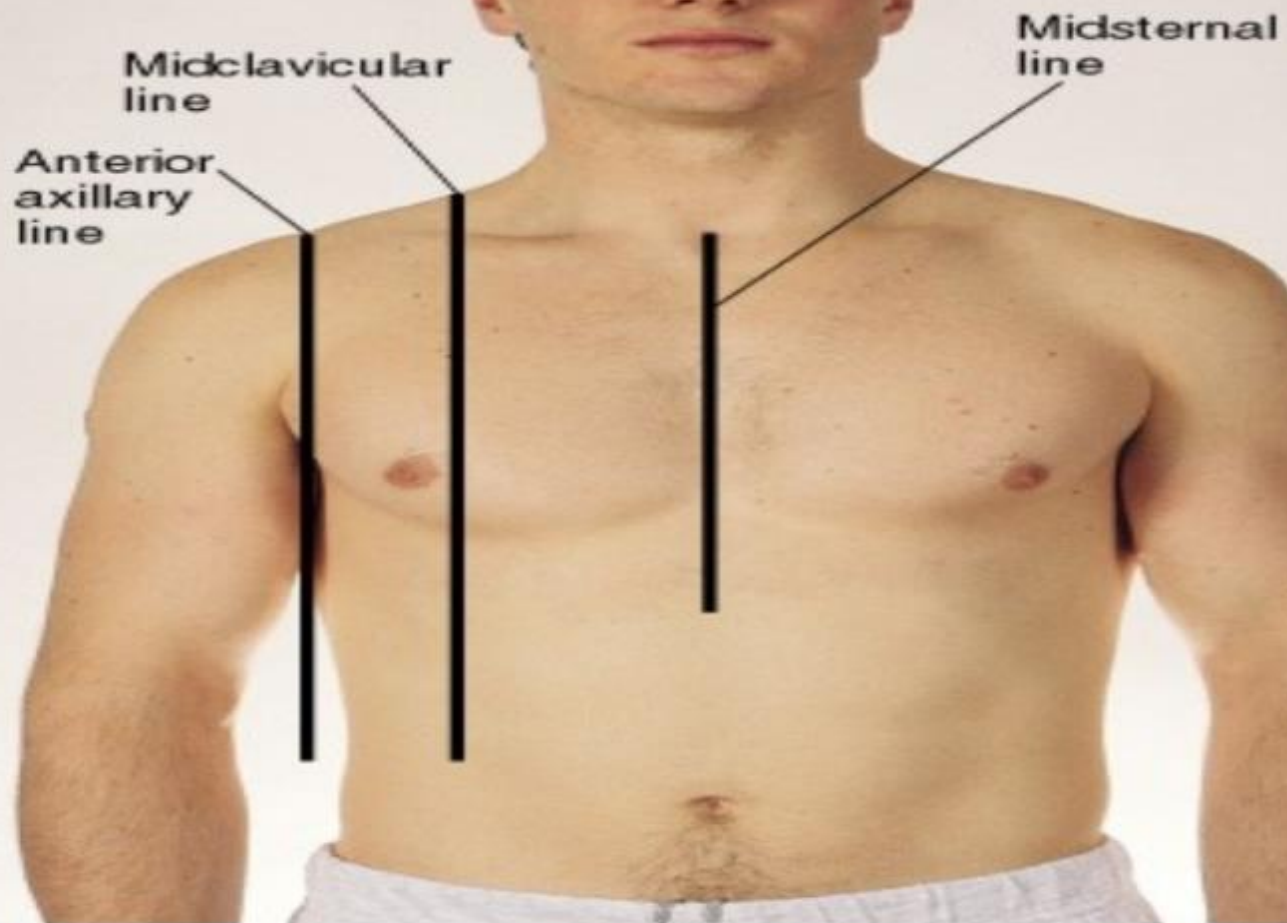
## • Posterior Chest

- Vertebral line – midspinal
- Scapular line

## • Lateral Chest

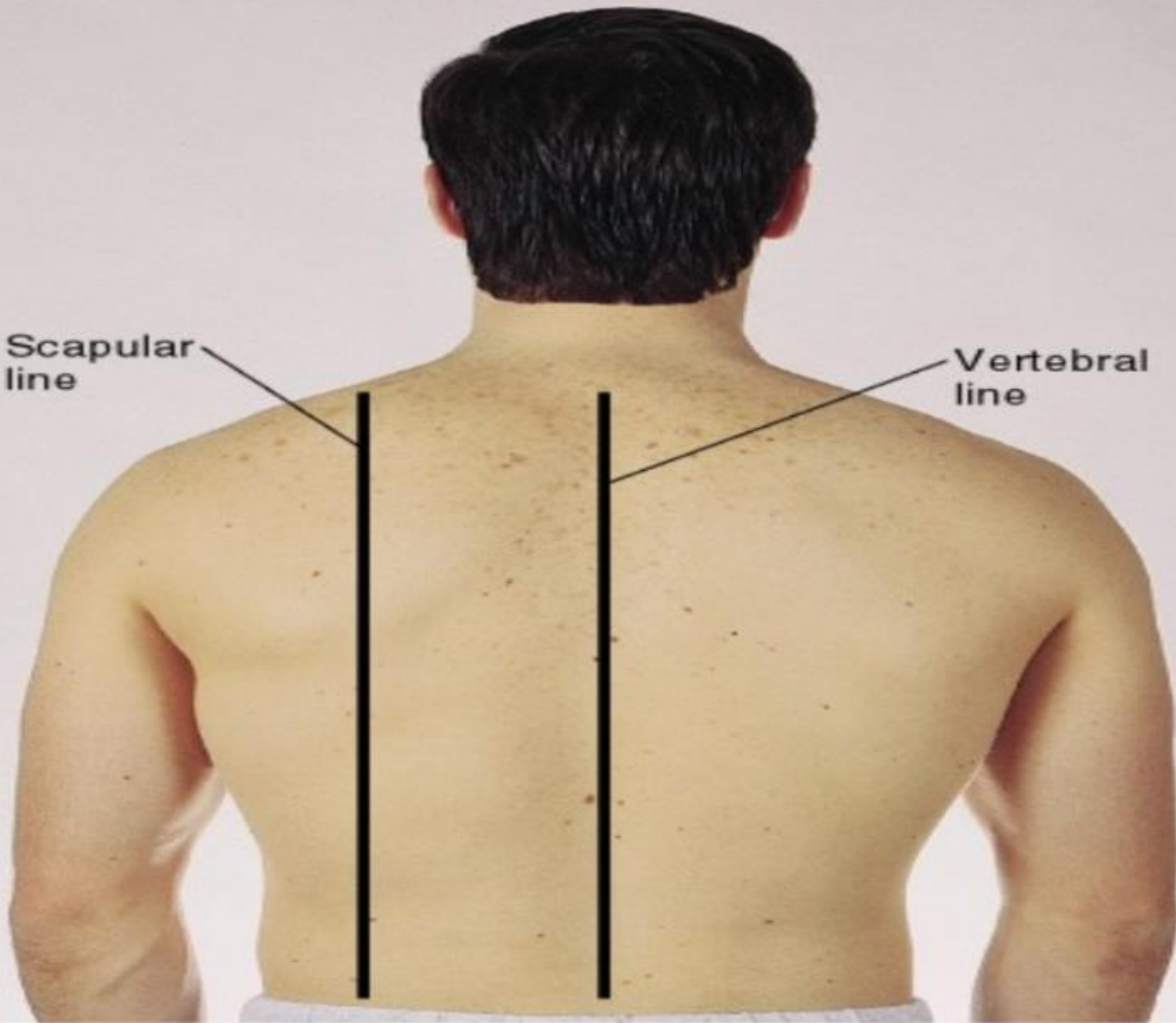
- Anterior Axillary line
- Posterior Axillary line
- Mid-axillary line





Scapular  
line

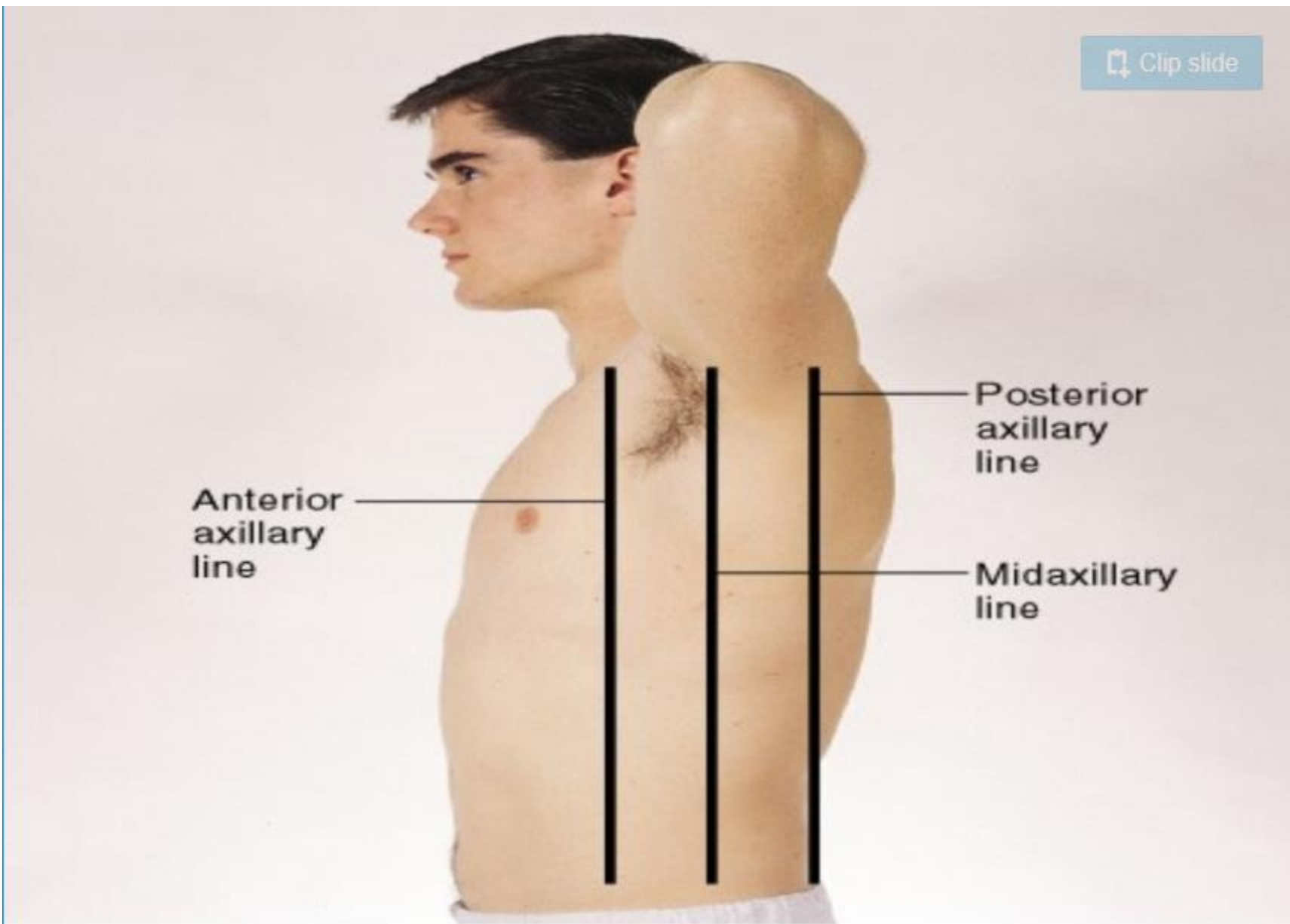
Vertebral  
line



Anterior axillary line

Posterior axillary line

Midaxillary line



# The Thoracic Cavity

- Mediastinum middle of the thoracic cavity & contains;
  - Esophagus
  - Trachea
  - Heart
  - Great Vessels
- Pleural Cavities on either side of the mediastinum contain the lungs

# Lobes of Lung

## ● Right Lung

- 3 lobes, upper, middle , lower
- Shorter due to liver

## ● Left Lung

- LUL = Left Upper and Lower ( 2 lobes)
- Narrower due to heart

# Pleurae

- The Pleurae form an envelope b/t the lungs & chest wall
- Visceral pleura – lines outside of lungs
- Parietal pleura – lines inside of chest wall & diaphragm
- Pleural Cavity – the inside of the envelope- space b/t visceral & parietal pleura, lubrication. Normally has a vacuum or neg. pressure

