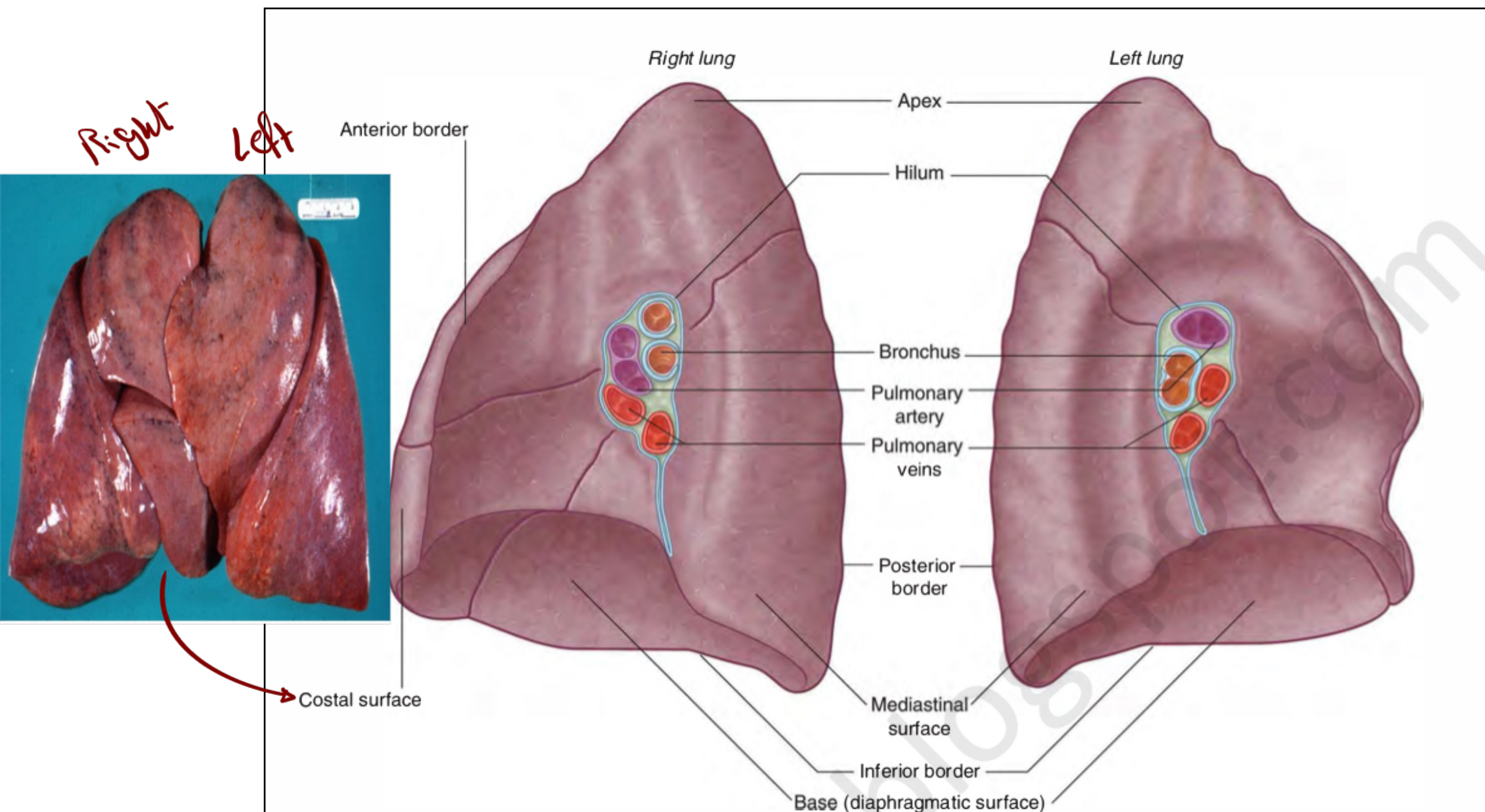


Lab / Fourth Week

- 1. Pleura.**
- 2. Lungs.**

✱ Lungs

- The students should observe the base, apex, two surfaces and three borders of lungs
- The students should know the different between the right and left lung



✱ Lungs

- The students should know the surface anatomy of the lungs

- At end-expiration

- 6th rib – midclavicular
- 8th rib – midaxillary
- 10th T.vertebra_

Posteriorly

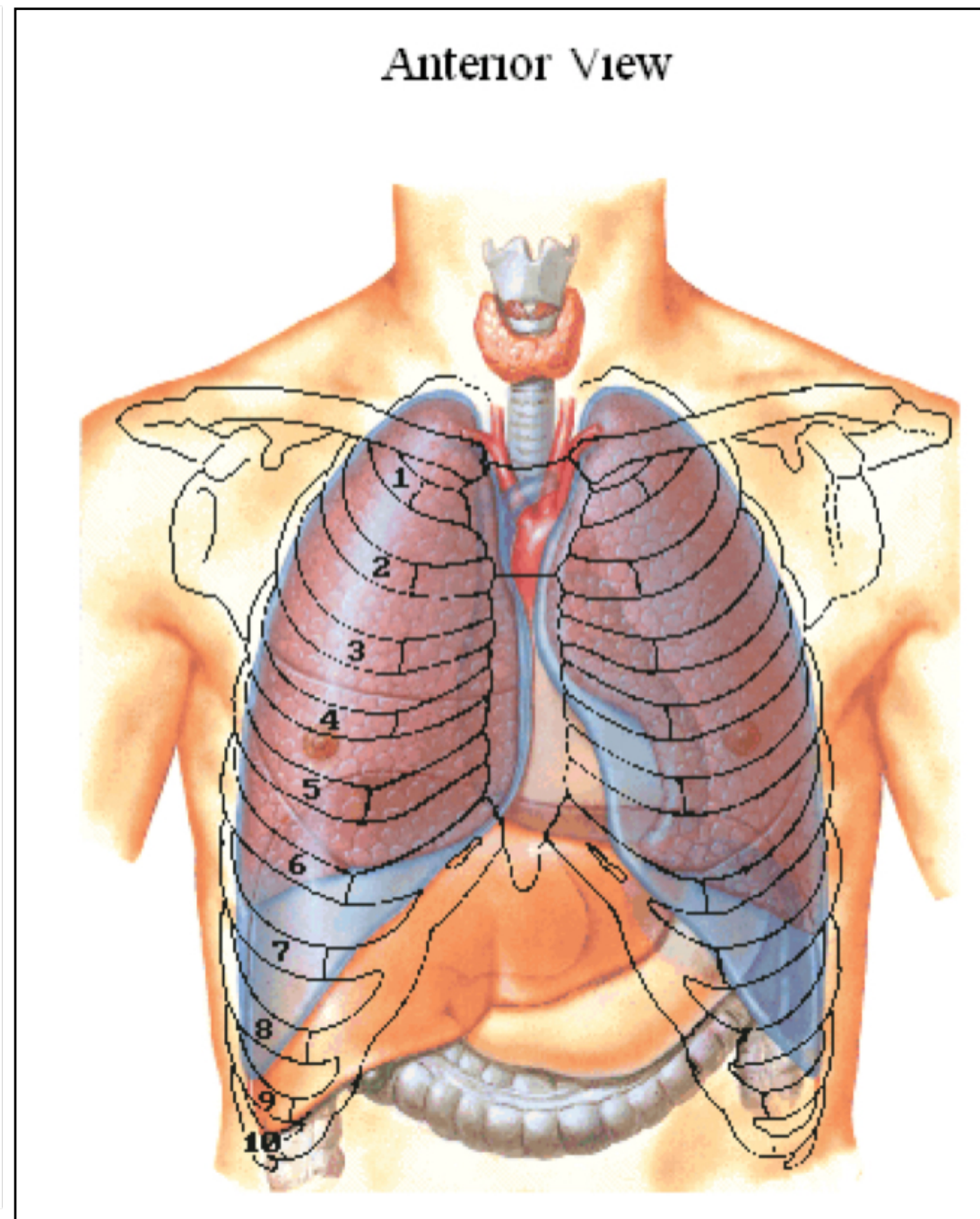
- apex is at 1st Th vertebra

- Posterior border Extend from 7th C vert. to the 10th T vert.

- lies 4cm from the midline

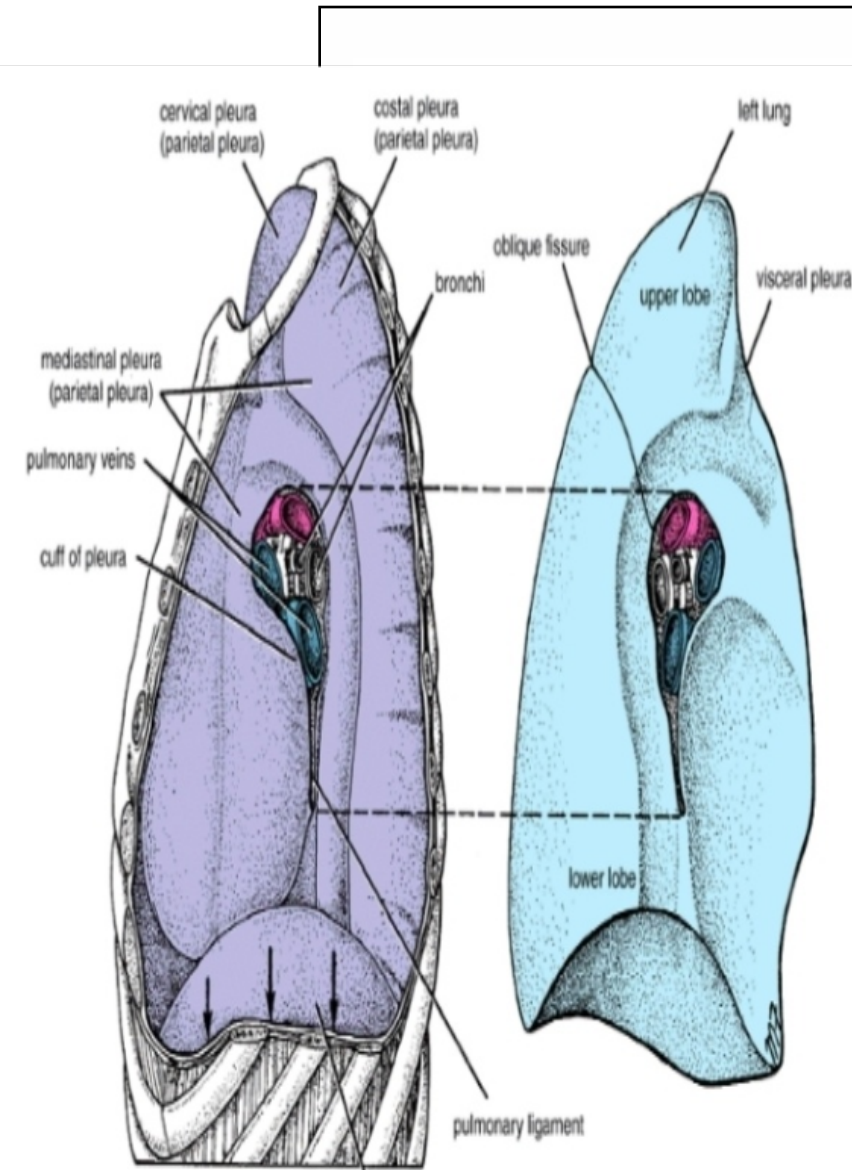
Inferior border

- Ascend and descend between 9th & 12th rib



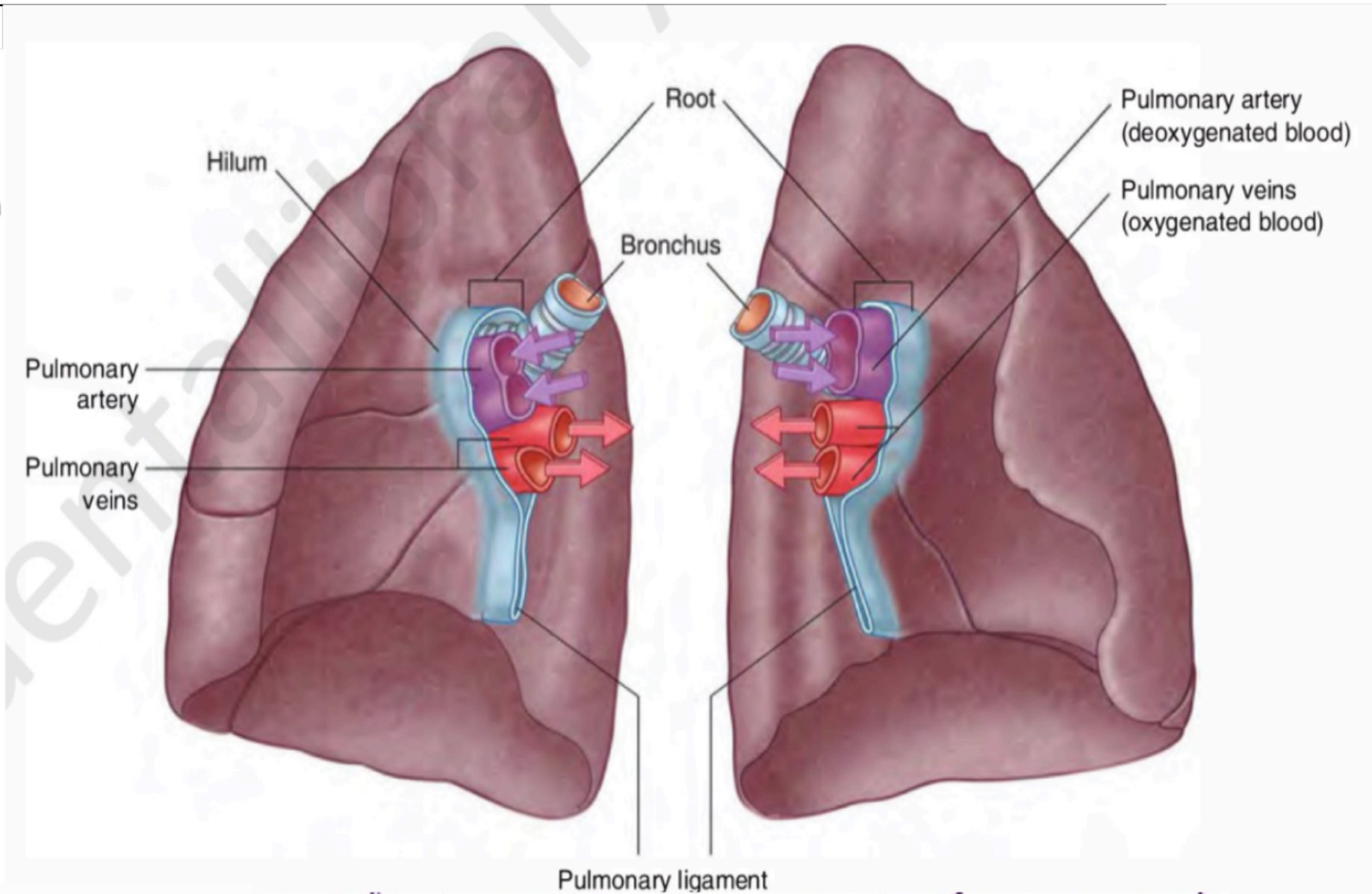
✿ Root and hilum Of the lungs

- The students should observe the root of the lungs and content of the hilum:



In Right lung:

- ① pulmonary Artery
- ② 2 pulmonary veins
- ③ 2 bronchi: 1 posterior + 1 anterior
↑
upside
↓
bottom

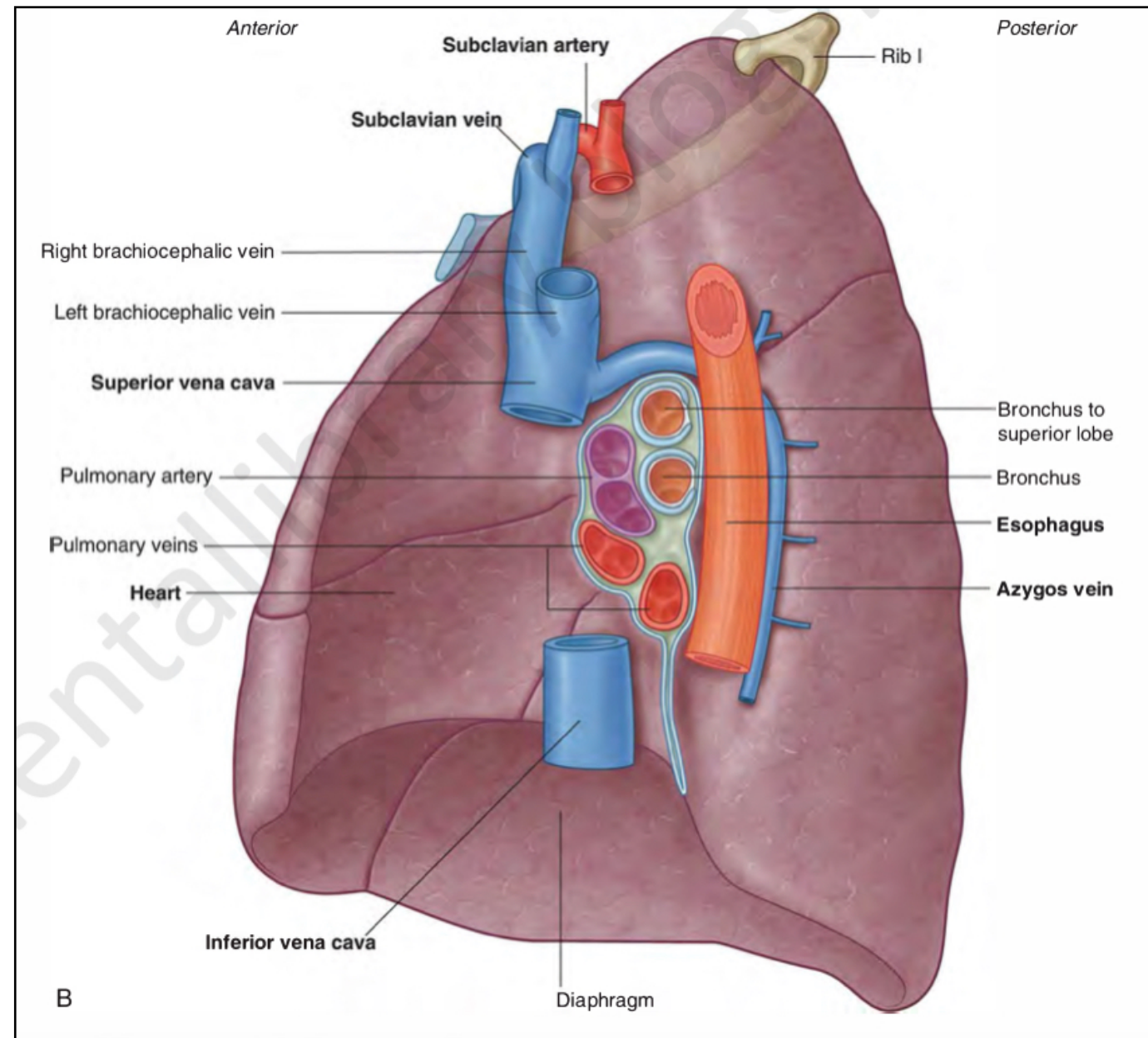


In left lung:

- ① Pulmonary Artery (most superior.)
- ② 2 pulmonary veins
- ③ 1 mid bronchus (posterior)

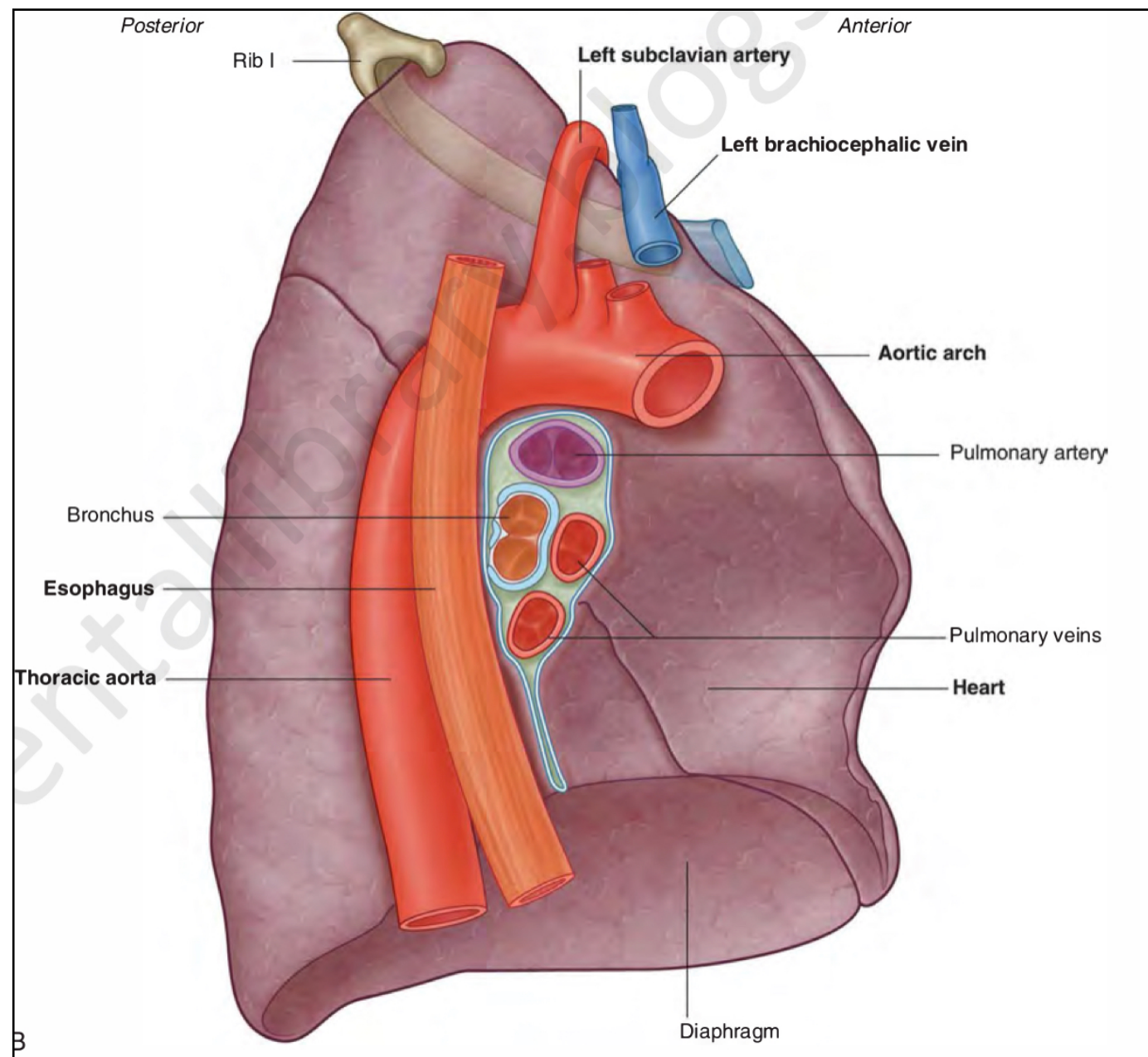
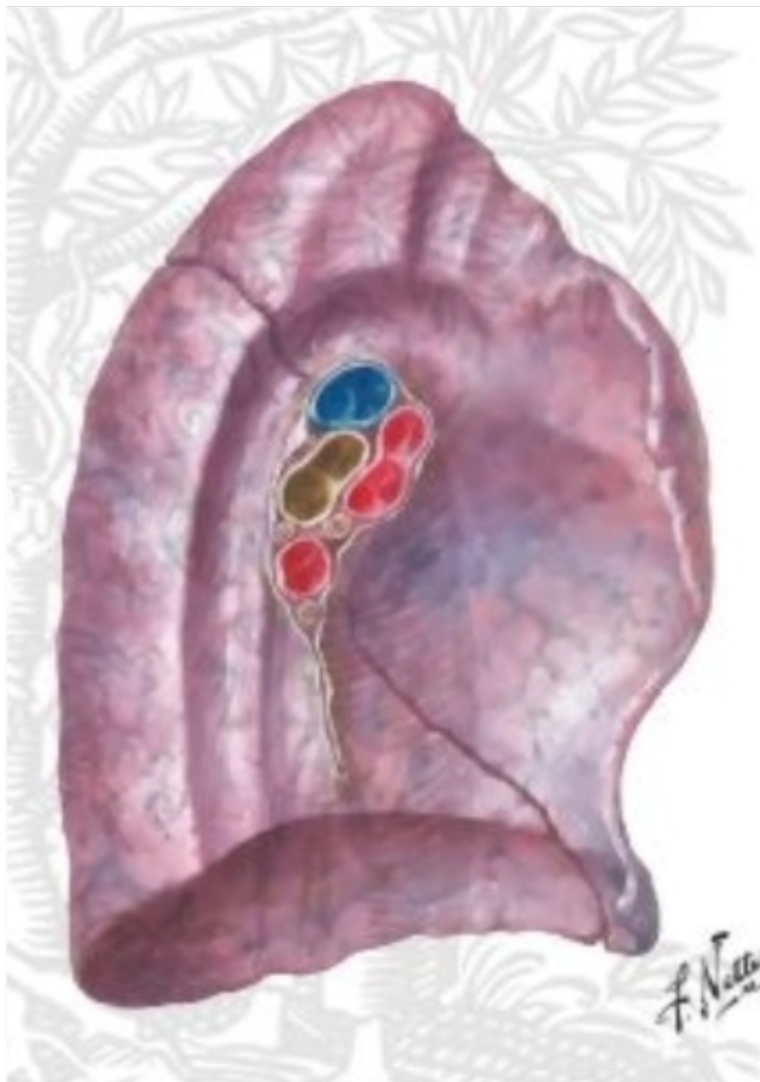
✱ Lungs

- The students should know the impression on the right lung:
 - inferior vena cava
 - superior vena cava
 - Right atrium
 - Arch of azygos vein
 - esophagus.
 - Trachea



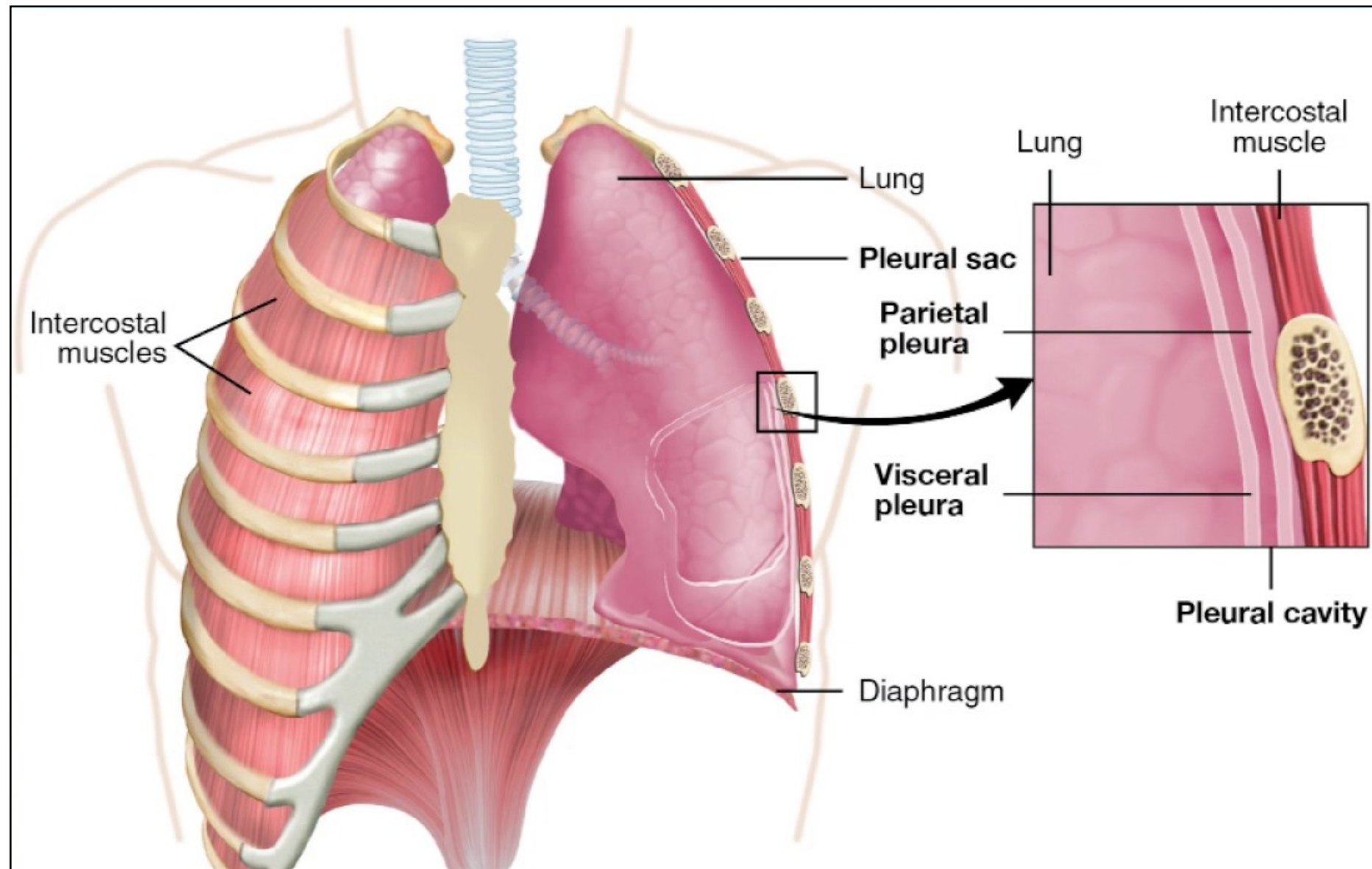
✱ Lungs

- The students should know the impression on the left lung:
 - heart (pericardium covering left ventricle)
 - aortic arch
 - thoracic aorta
 - esophagus
 - Left common carotid
 - Left subclavian



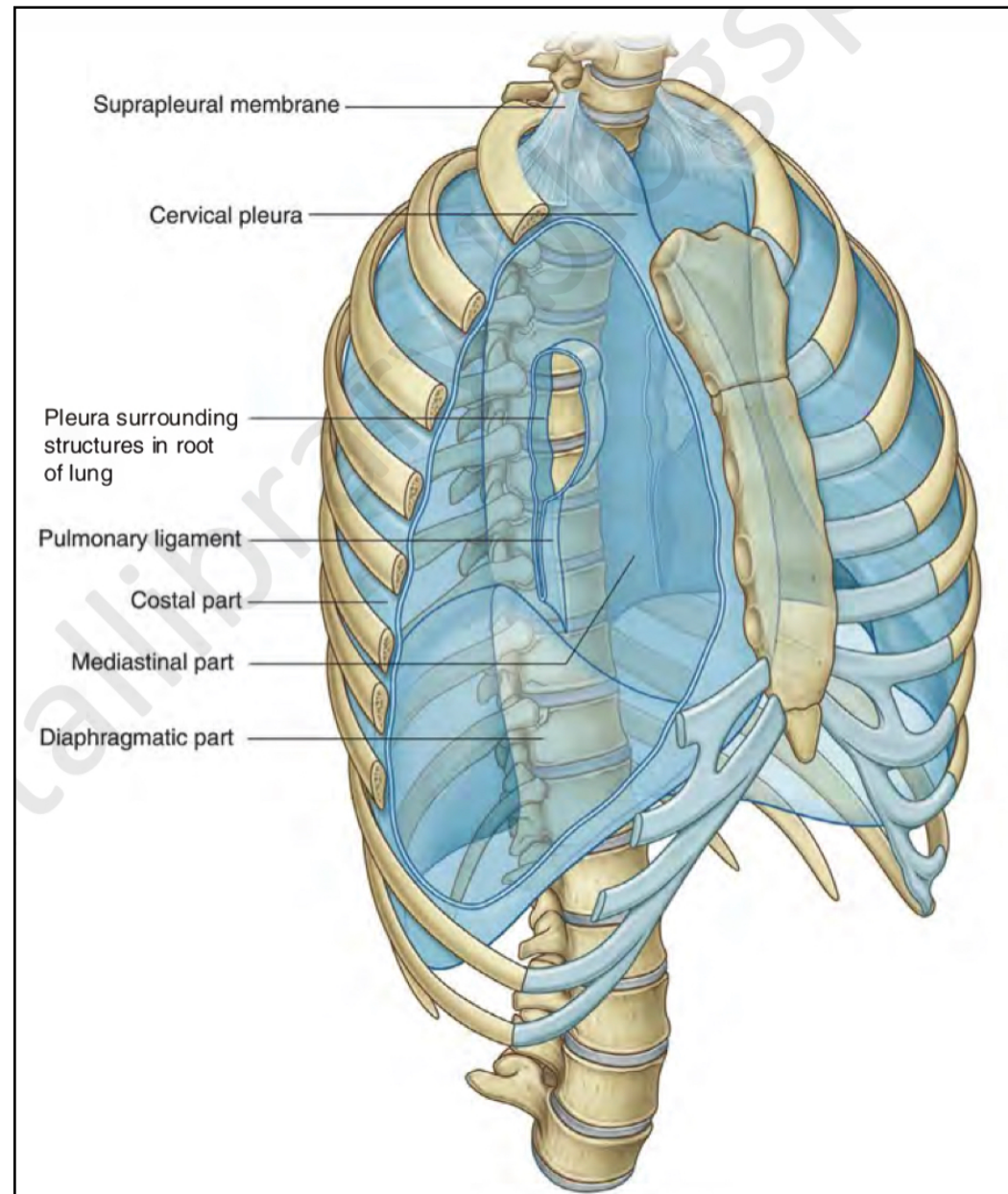
✱ Pleura

- The students should know that pleura is divided into two major types:
 - parietal pleura
 - visceral pleura



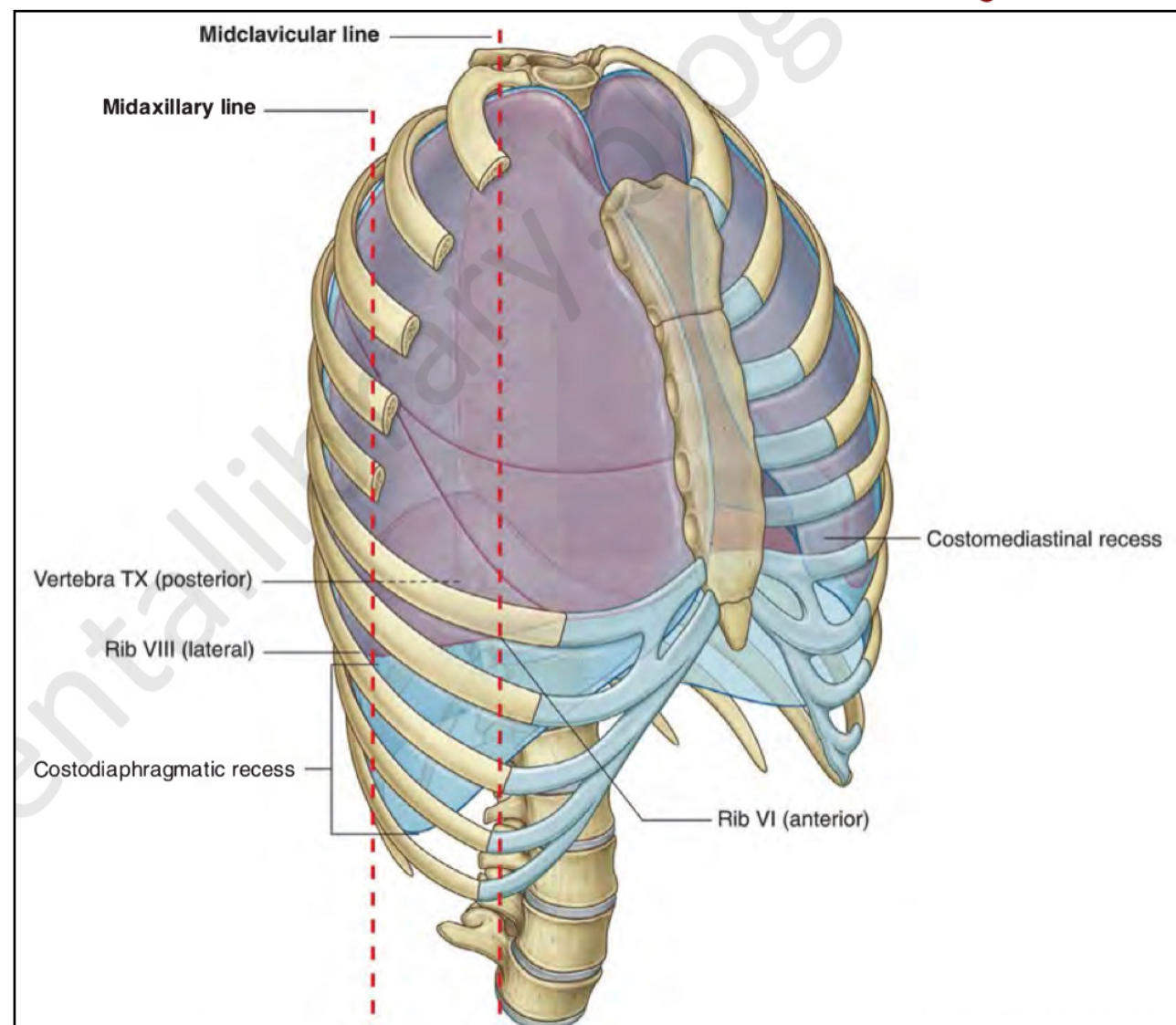
✱ Pleura

- The students should know parts of parietal pleura:
 - Cervical
 - Mediastinal
 - Diaphragmatic
 - Costal



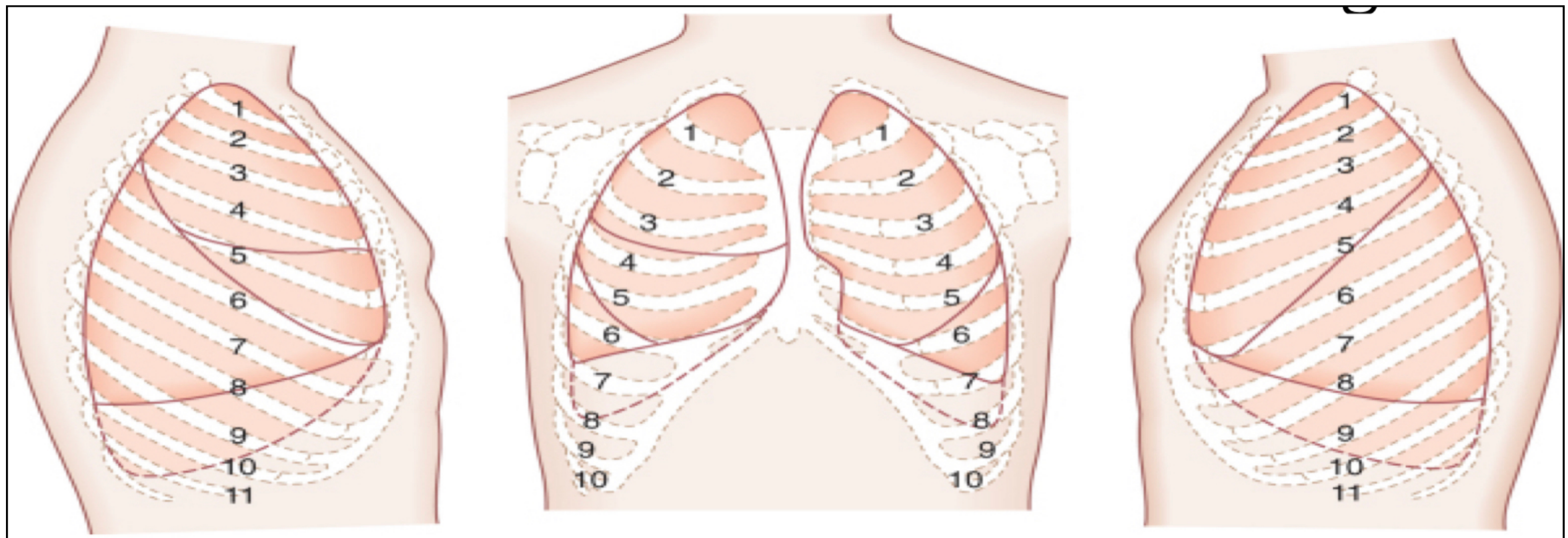
✱ Pleura

- The students should know Pleural recesses:
 - Costomediastinal recesses *between costal and mediastinal*
 - Costodiaphragmatic recesses *between costal and diaphragmatic*



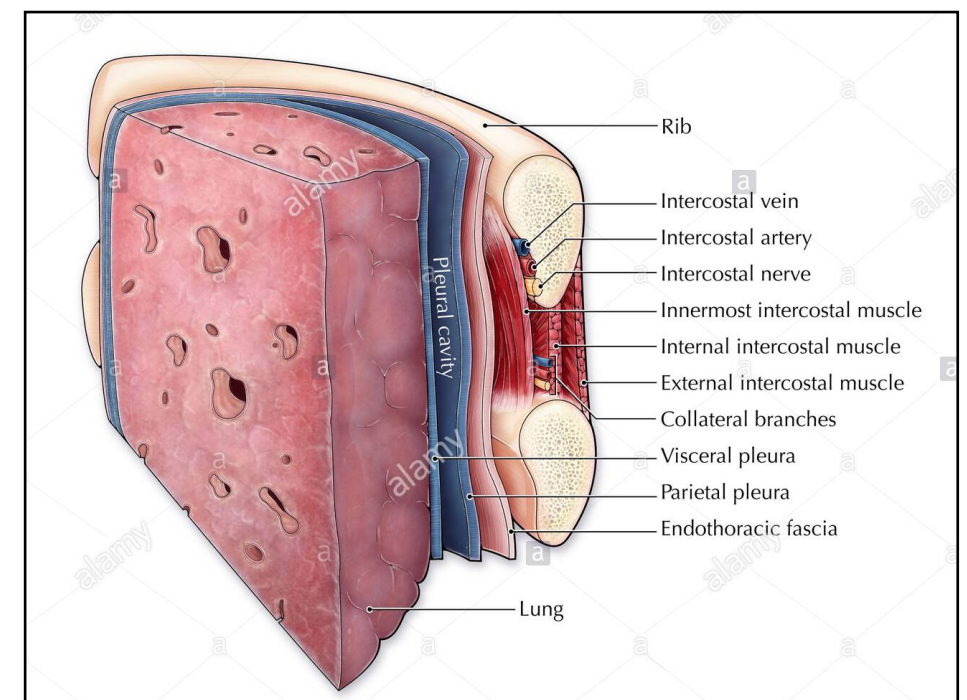
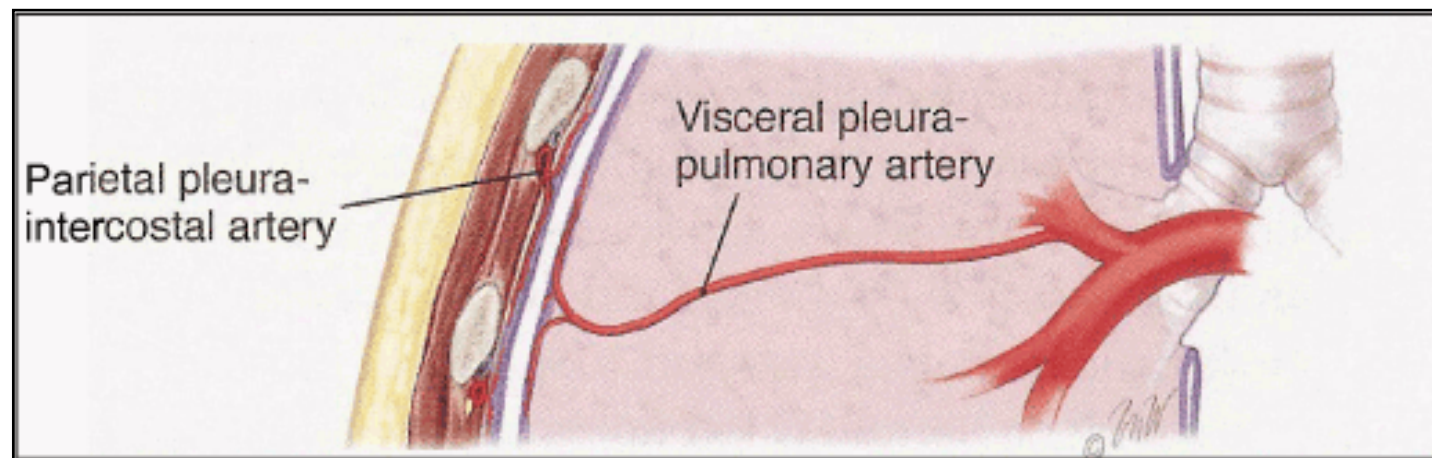
✱ Pleura

- The students should know the surface anatomy of pleura:
 - at the midclavicular line, the recess is between rib spaces 6 and 8,
 - at the midaxillary line between 8 and 10
 - at the paravertebral line between 10 and 12.



✱ Pleura

- The students should know the arterial supply of the parietal pleura:
 - Intercostal arteries(ant& post)
 - Internal thoracic
 - Musculophrenic arteries
- The students should know the arterial supply of the visceral pleura:
 - Bronchial arteries



✱ Pleura

- The students should know the Lymphatic drainage of pleura:

Lymphatic drainage of pleura

parietal pleura

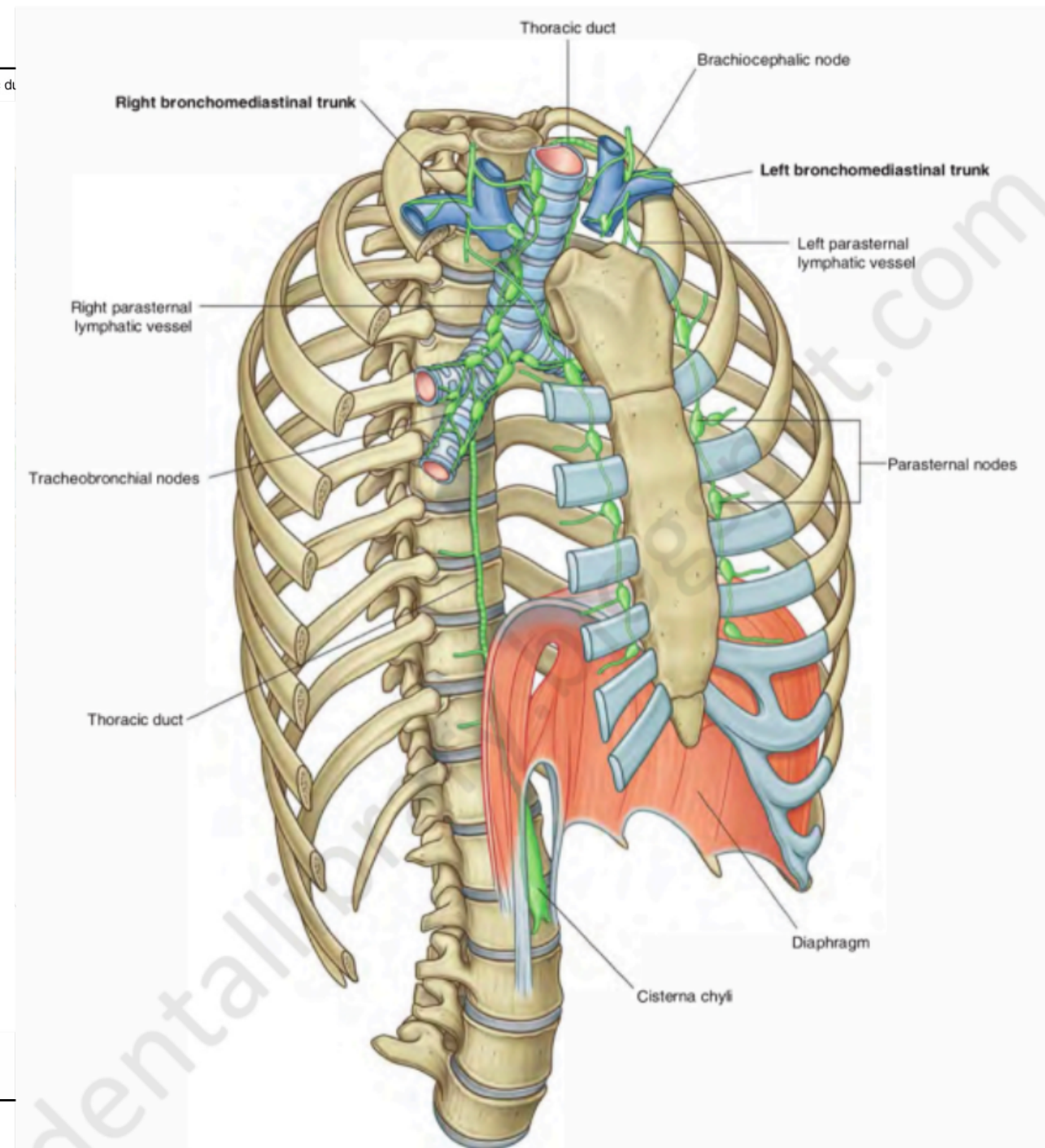
Mediastinal pleura by

- 1- mediastinal nodes
- 2- Tracheobronchial nodes
- 3- Intercostal nodes

Diaphragmatic pleura

- 1- Parasternal nodes
- 2- Post.mediastinal nodes

- Pulmonary pleura(visceral) :along bronchial arteries → bronchopulmonary nodes



✱ Pleura

- The students should know the nerve supply of pleura:

Parietal pleura:

- It is sensitive to
pain

Temp

Touch & pressure

- 1- Intercostal nerves → Costal pleura (segmentally)
- 2- Phrenic nerve → Mediastinal pleura + diaphragmatic pleura
- 3- lower 6 intercostal → peripheral pleura

Visceral pleura

- Sensitive to stretch
- Insensitive to pain, temp or touch
- Supplied by pulmonary plexus & autonomic.N.S

