

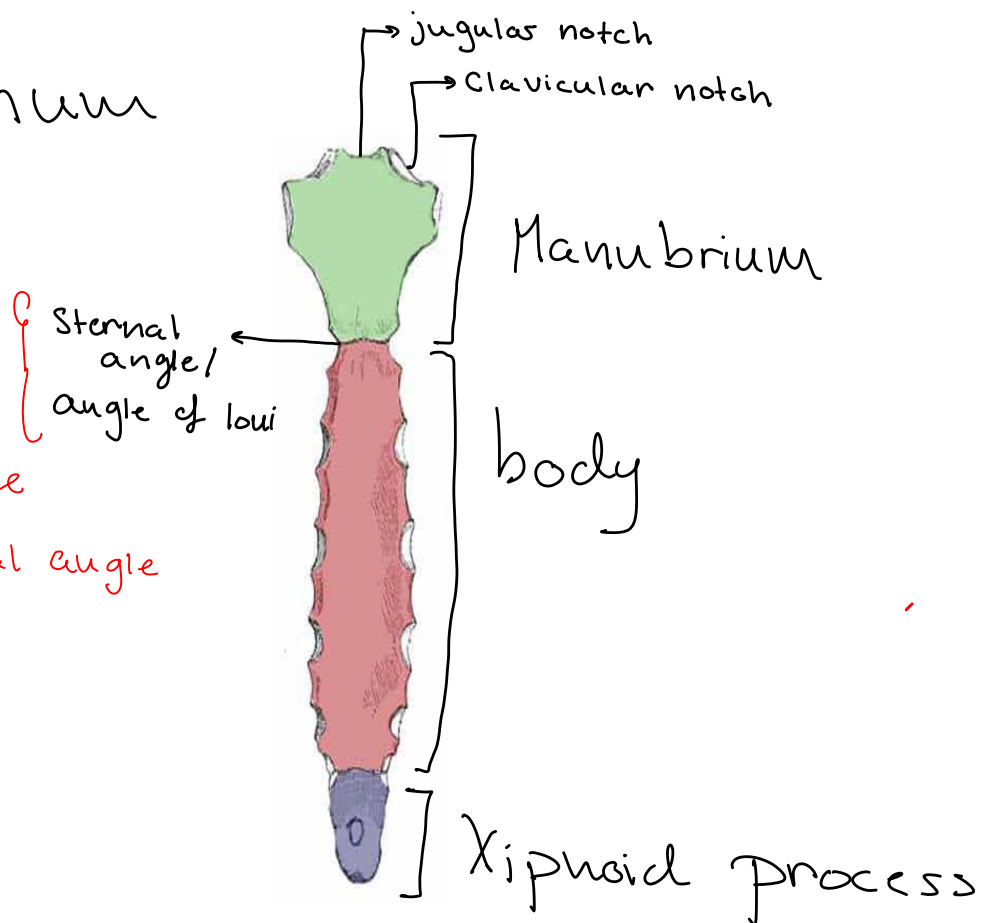
CVS module

Practical 1 Thoracic wall and Mediastinum

* Thoracic Cage

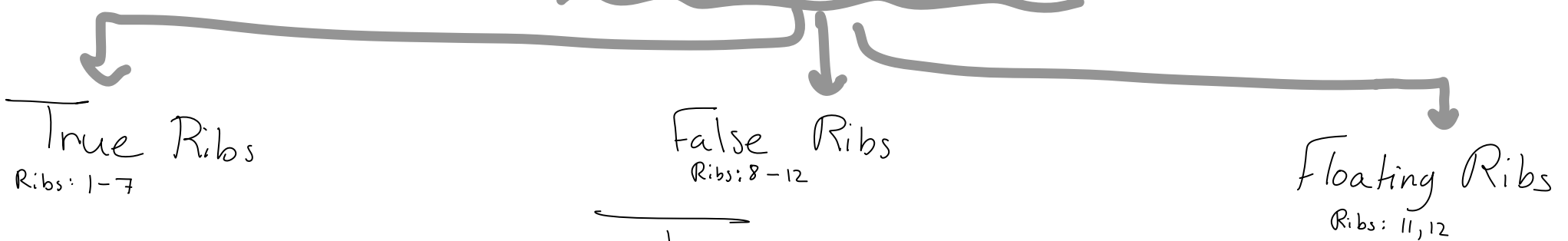
→ Sternum

Imp. when it comes to counting the ribs
The 2nd costal cartilage attaches at the sternal angle



→ Ribs

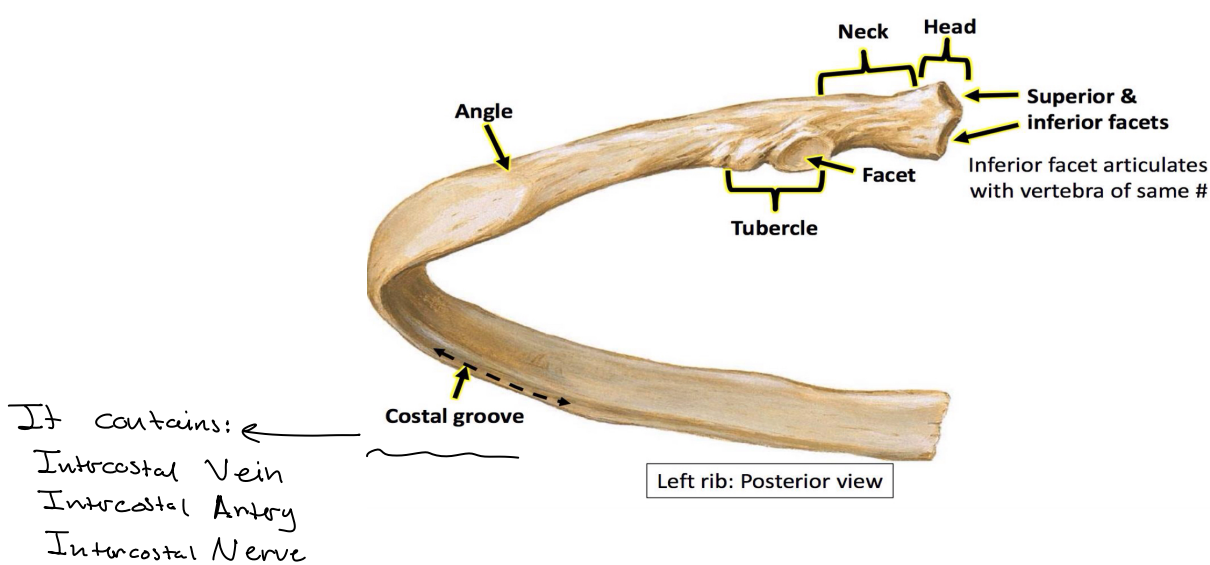
Classification:



Types:



Structure (Typical Rib)

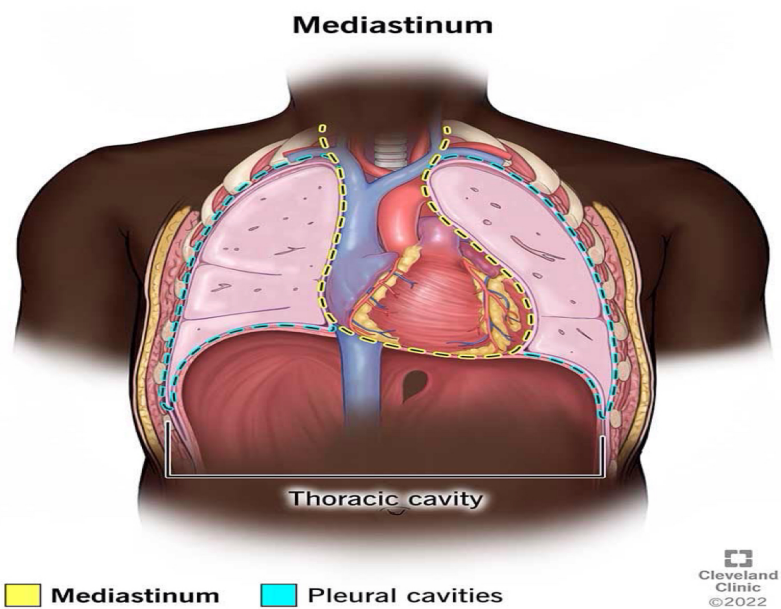


Left rib: Posterior view

It contains:
Intercostal Vein
Intercostal Artery
Intercostal Nerve

* Mediastinum :

→ It is the region btw the 2 pleural cavities



→ Boundaries

- Superior: Thoracic Inlet & the opening at the top of the chest, connecting the neck to thorax
- Inferior: Diaphragm
- Anterior: Sternum
- Posterior: Vertebral column

→ Divisions

The mediastinum is divided into 2 Parts

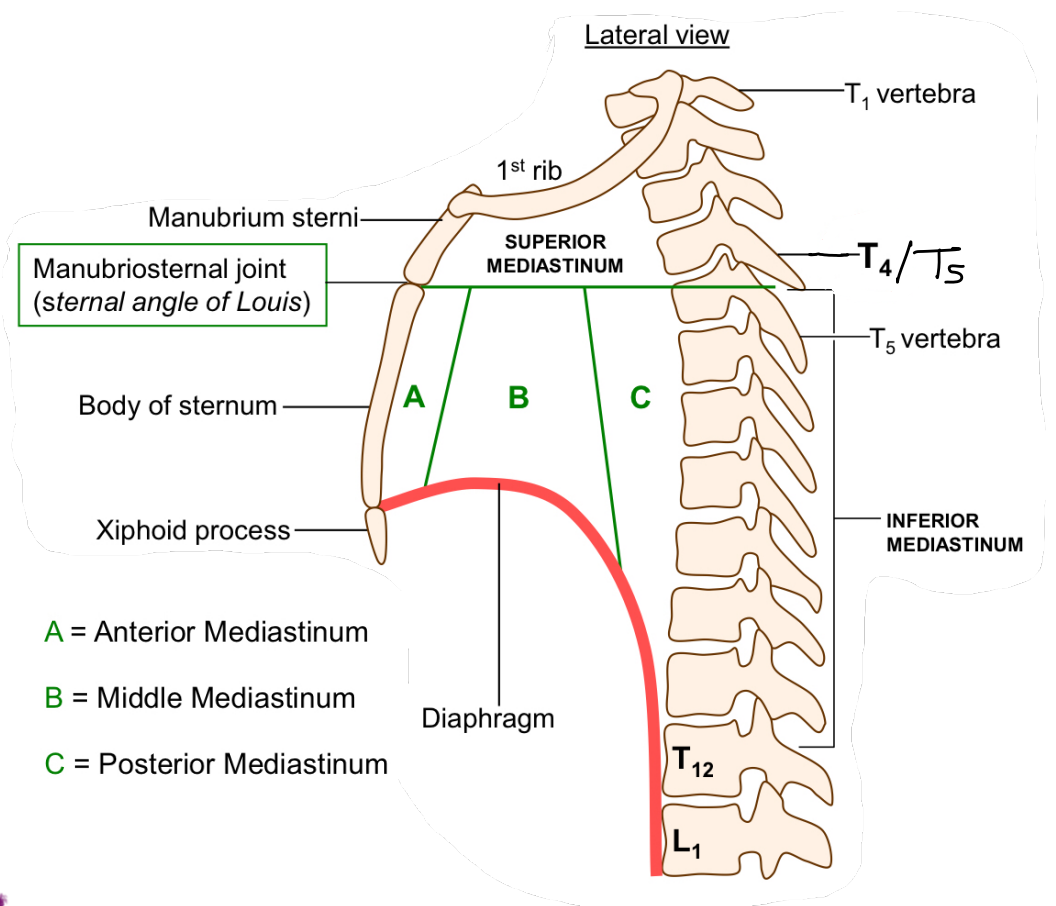
Superior

Inferior

Anterior

Middle

Posterior



★ Superior mediastinum

○ It is the area above the sternum angle (T_4/T_5)

○ Contents :

○ Arch of Aorta

Brachiocephalic trunk

L. Common Carotid

L. Subclavian

R. subclavian

R. Common carotid

○ Brachiocephalic Veins

○ Upper $\frac{1}{2}$ of SVC

○ Vagus N. $\rightarrow$ Recurrent laryngeal N.

○ Phrenic N

○ Trachea

○ Esophagus

○ Thymus

○ Thoracic duct

★ Anterior Mediastinum

➡ It lies btw pericardium & sternum

➡ Contents :

○ Superior & Inferior sterno-pericardial ligament

○ Mediastinal branches of Internal thoracic artery

○ Remains of Thymus Gland

○ Lymph Nodes

☆ Middle Mediastinum

Contents:

- heart
- Pericardium
- lower $\frac{1}{2}$ of SVC
- Ascending aorta
- Pulmonary Trunk
- Bifurcation of trachea
- 2 main bronchi
- Phrenic N.

☆ Posterior Mediastinum

Contents:

- Descending Thoracic Aorta
- Azygous V.
- Hemiazygous V. $\begin{cases} \rightarrow \text{Superior} \\ \rightarrow \text{Inferior} \end{cases}$
- Intercostal vessels
- Vagus N.
- Sympathetic trunk
- Thoracic duct
- Post. mediastinal lymph nodes
- Esophagus

* Pericardium

Outer layer:
Tough fibrous layer

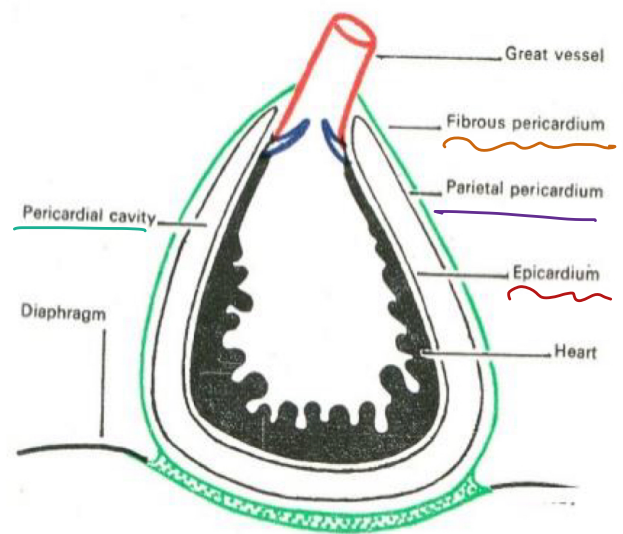
Inner layer:
Smooth serous layer

Parietal layer

In btw these 2 layers is the pericardial cavity that contains serous fluid to prevent friction

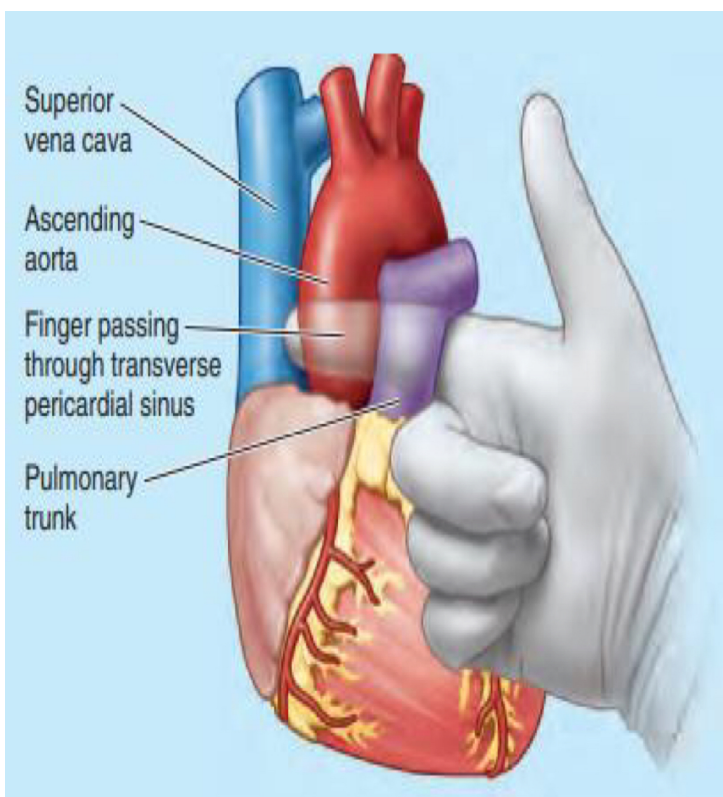
Visceral layer
(a.k.a epicardium)

Layers of Pericardium



Transverse Sinus:

- It is a horizontal sinus that separates the superior vessels from the posterior vessel
- It is imp. for surgery



Oblique Sinus:

- It is a vertical sinus.

