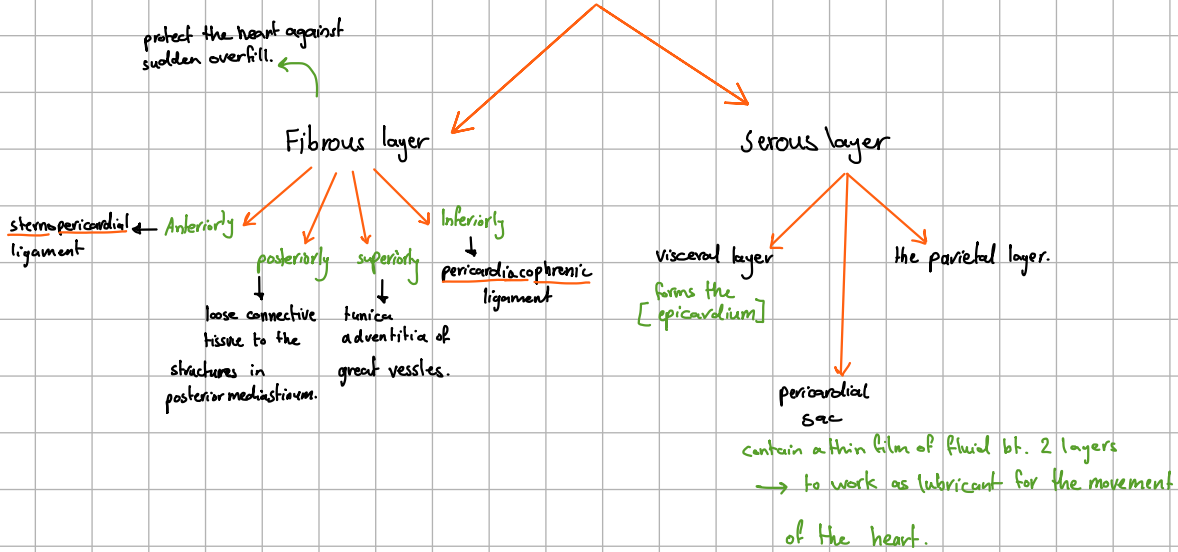


# Pericardium



## Pericardial sinuses :

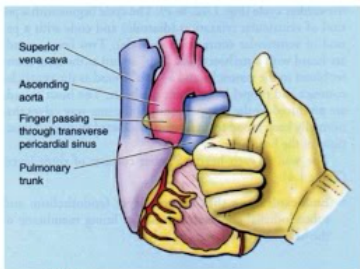
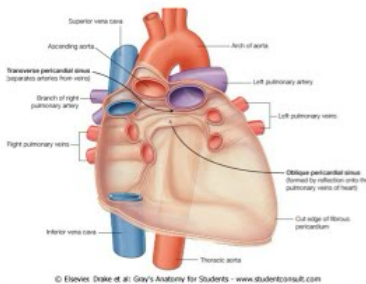
### \* Transverse sinus

Anteriorly : Ascending aorta + pulmonary trunk  
 Posteriorly : SVC  
 Inferiorly : Atria of the heart.

### \* Oblique sinus

Anteriorly : visceral pericardium covering back of left atrium  
 Posteriorly : Parietal pericardium covering esophagus.  
 Superiorly : Reflection of visceral to become parietal pericardium.  
 Inferiorly : Open and continuous with pericardial cavity  
 Laterally : Pericardial reflection surrounding pulmonary veins and I.V.C

## Transverse & Oblique sinus



Relations:  
 Aorta and Pulmonary trunk- anterior &  
 SVC- posterior

Use your  
 imagination



# Pericardium ( blood supply, venous drainage, and innervation).

## Blood supply :

Artery	branch of :	Notes
Pericardiophrenic artery	Internal thoracic artery	the main blood supplier.
Musculophrenic artery	terminal branch of Internal thoracic artery.	
Bronchial, esophageal, and superior phrenic arteries	thoracic aorta.	
Coronary arteries	—	supply only visceral layer of serous pericardium.

## Venous drainage :

— Pericardiophrenic veins  $\Rightarrow$  tributaries of the brachiocephalic ( or internal thoracic) veins.

nerve name	the area
phrenic nerves (C3-C5)	fibrous + parietal layer of pericardium.
sympathetic trunk and vagus nerves.	visceral layer
supraclavicular nerves	C3-C5 dermatomes

# Note : Pericardial pain sensations is referred to the skin of the ipsilateral supraclavicular region, top of the shoulder of the same side ( C3-C5) dermatomes

# Clinical info:

## Pericarditis

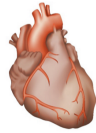
Is inflammation of pericardial sac, which cause chest pain

Pericarditis pain usually occurs behind the breastbone (sternum) or on the left side of the chest.

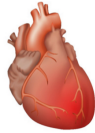
The pain may:

- Spread to the left shoulder and neck
- Get worse when coughing, lying down or taking a deep breath
- Get better when sitting up or leaning forward
- [https://www.youtube.com/watch?v=5\\_EkVuMeNRA](https://www.youtube.com/watch?v=5_EkVuMeNRA)

Normal heart



Pericarditis



11/2022

DR AHMED SALMAN

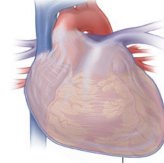
## Pericardial effusion

Means increase the fluid between the parietal and visceral layers of the pericardium

## Cardiac tamponade

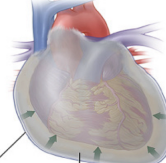
Is a rapid accumulation of excess fluid within the pericardial sac ,which leads to compresses the heart and heart failure.

Normal heart

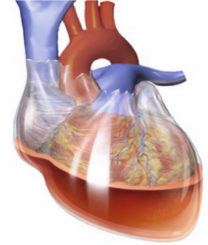


Pericardium

Pericardial effusion



Buildup of fluid



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