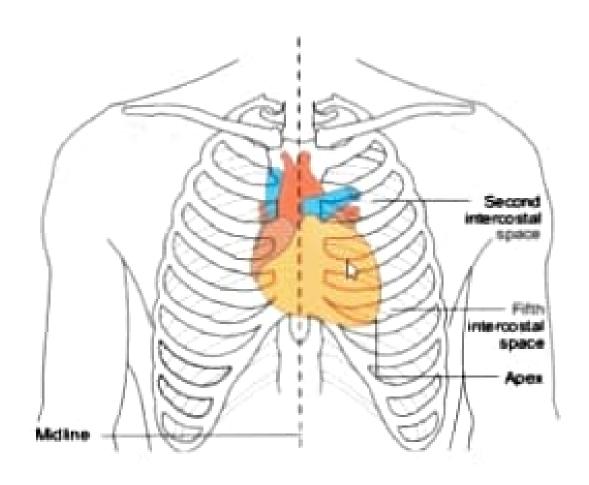
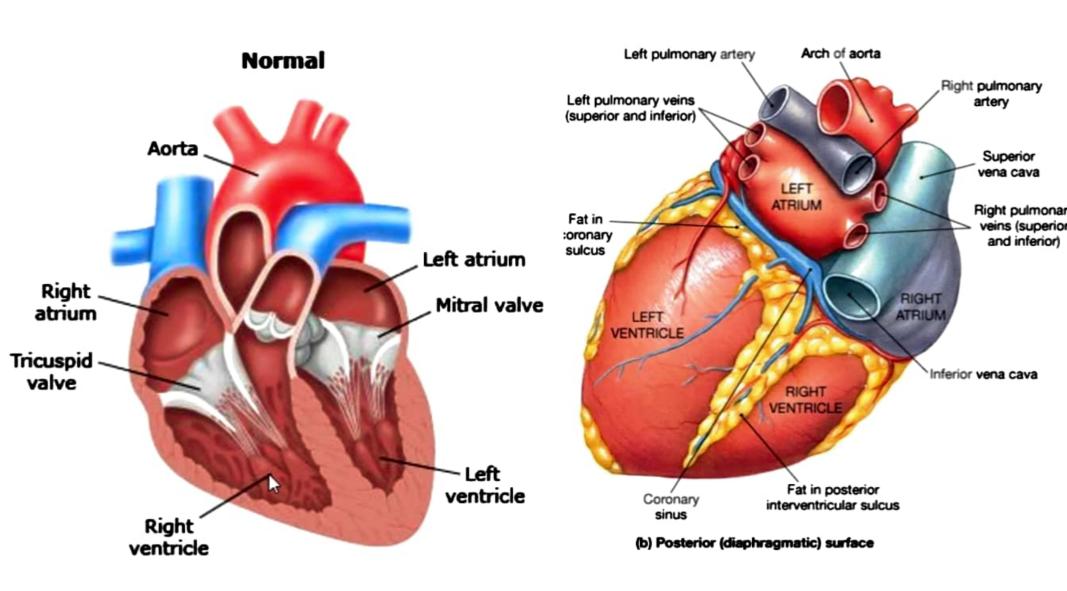
## **HEART LOCATION**

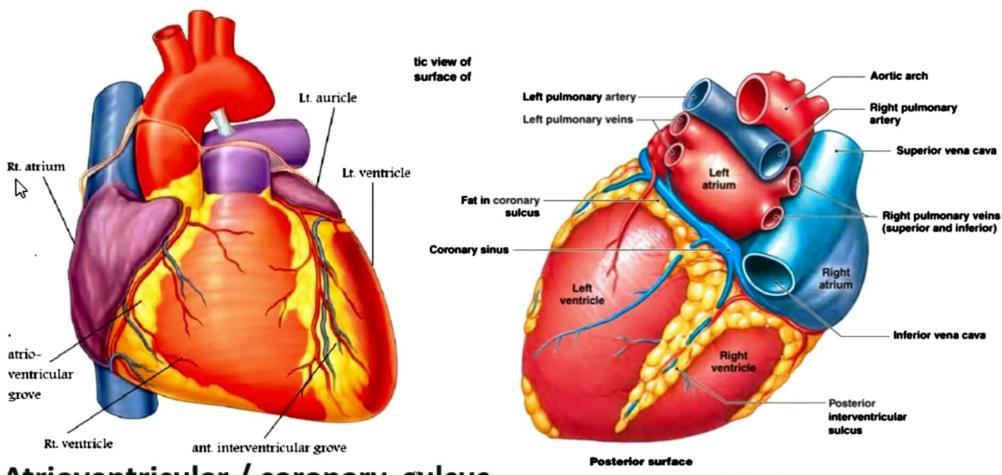


#### **EXTERNAL FEATURES OF HEART**

### Chambers of heart



# SULCI / GROOVES



Atrioventricular / coronary sulcus Interatrial groove

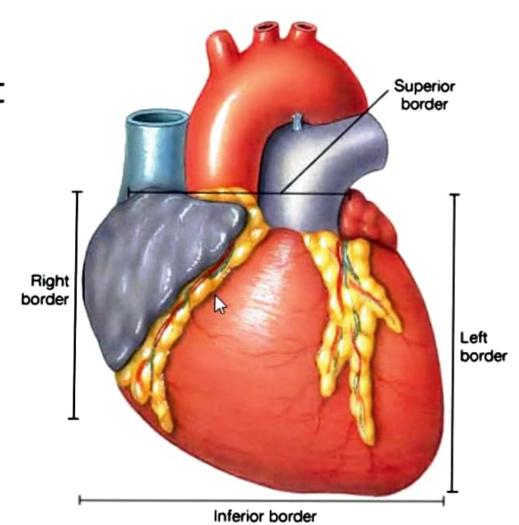
Interventricular grooveanterior posterior

#### **PARTS** Apex

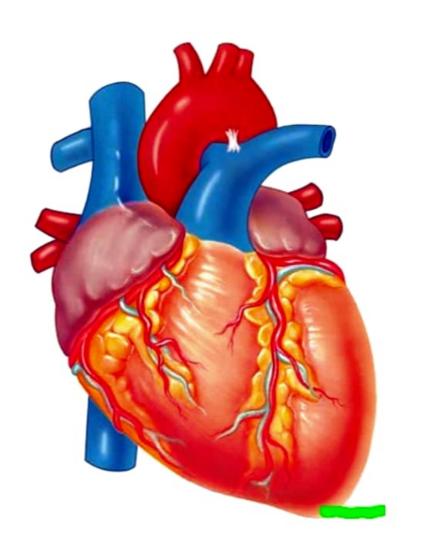
**Base** 

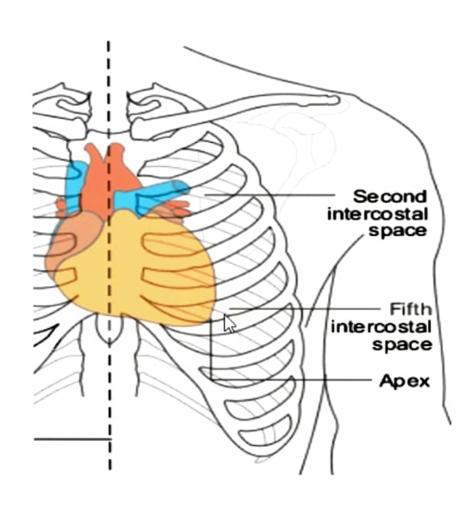
• Borders –Sup, inf, rt, lt

Surfaces - anterior inferior
 left

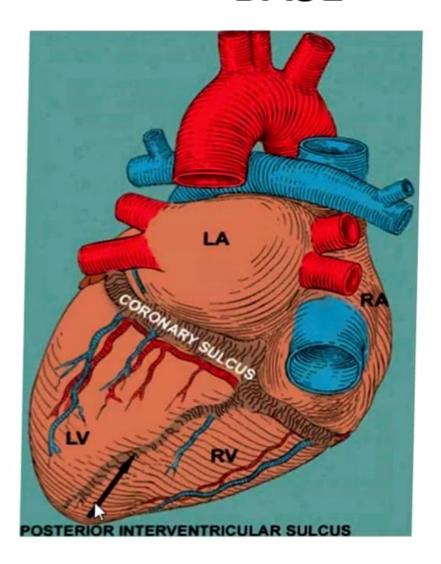


#### **APEX**

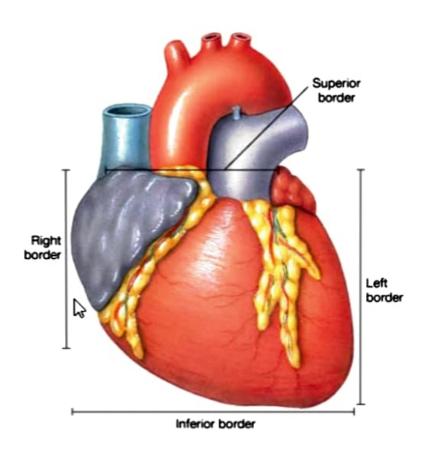


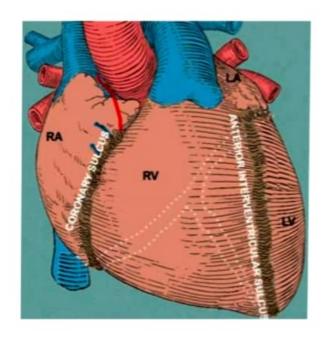


#### **BASE**



#### **BORDERS OF HEART**

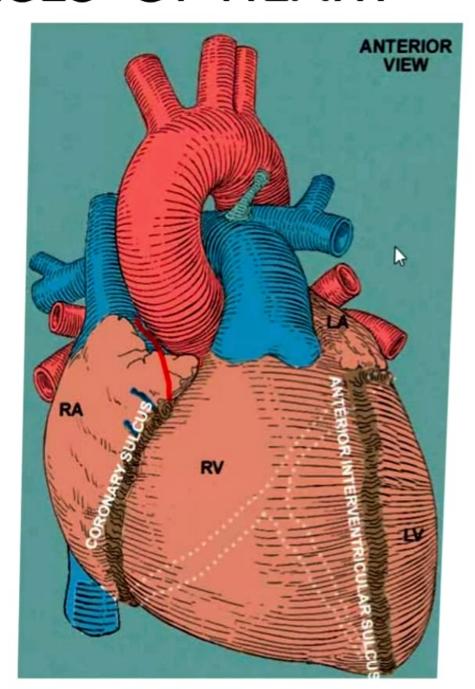




#### SURFACES OF HEART

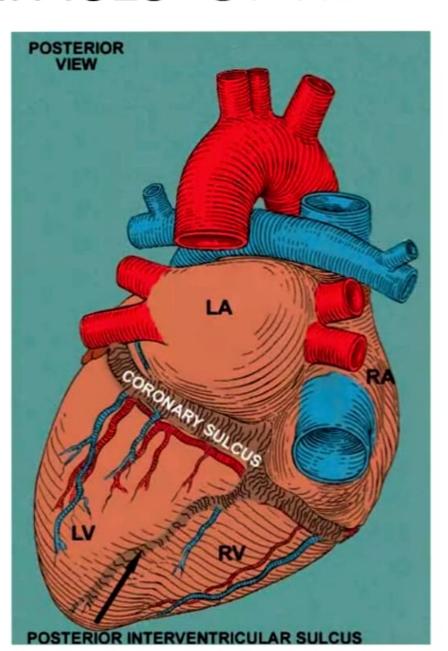
Anterior /
Sternocostal
surface

Left surface
 LV, Left auricle



### SURFACES OF HEART

Inferior /
Diaphragmatic
surface



b

# **CORONARY CIRCULATION**

CONSIST OF

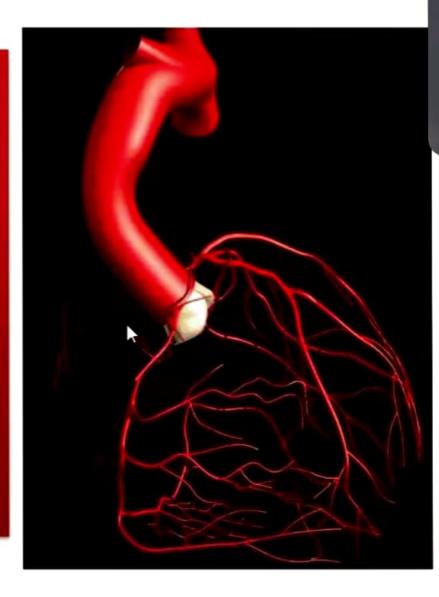
1) Arterial supply

2) Venous drainage



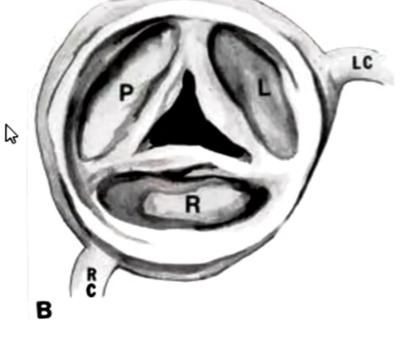
# Coronary artery

- Coronary artery is a vasa vasorum that supplies the heart.
- Anatomically not end arteries but functionally.

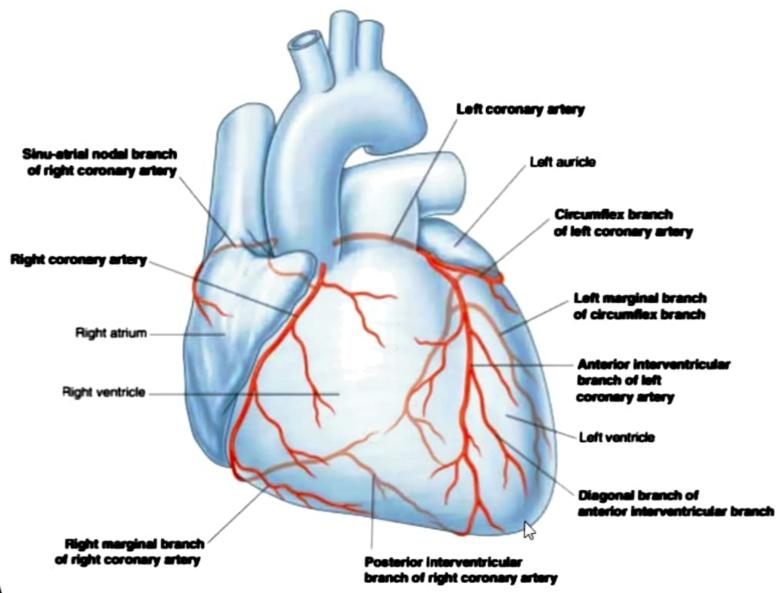


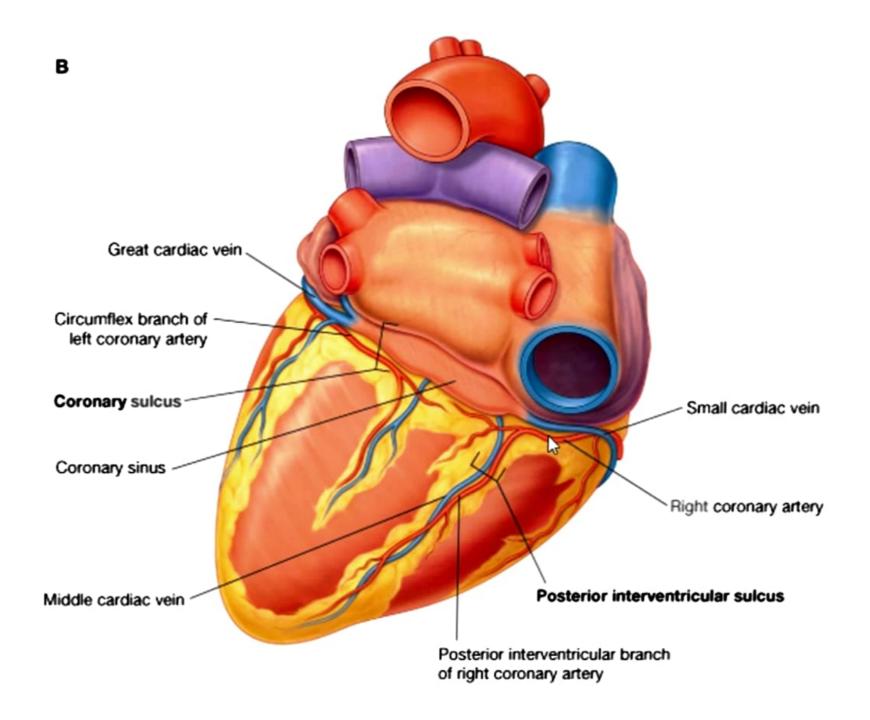
## **CORONARY CIRCULATION**

- Heart is supplied by TWO CORONARY arteries:
  - 1- Right coronary artery---(RCA)- anterior aortic sinus
  - 2- Left coronary artery---(LCA)- left post. aortic sinus
- These coronary arteries arise from aortic sinuses at the root of the Ascending aorta.



# Right coronary artery





## Branches

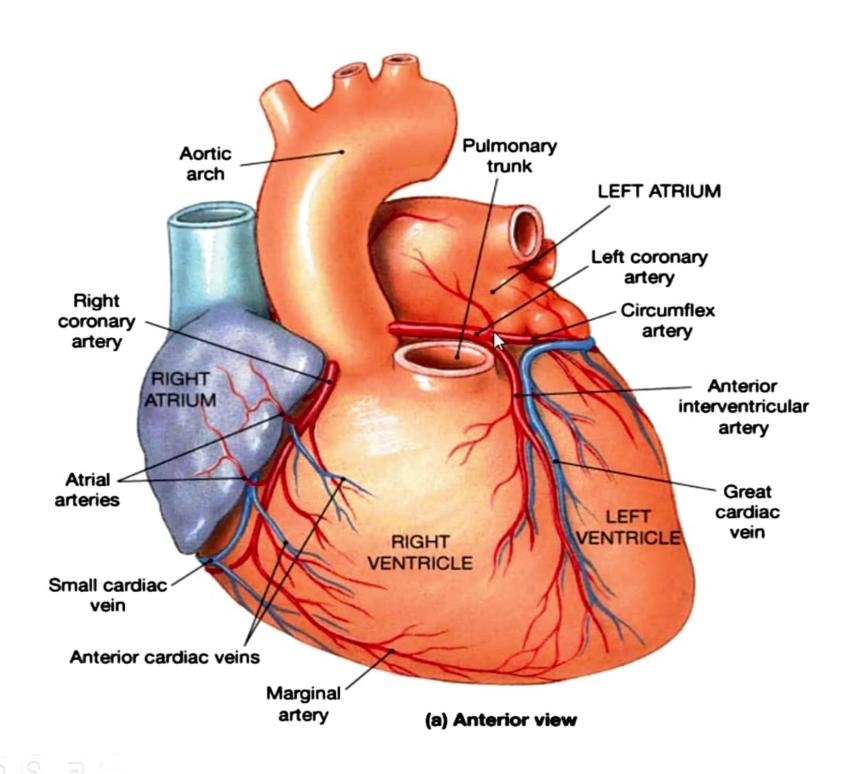
1.SA NODAL A-	
	4. VENTRICULAR BR- Anterior &
2. ATRIAL BR.	posterior
Anterior, posterior & lateral	
	5. RT MARGINAL
3. RT CONUS A	
	6.POST INTERVENTRICULAR BR-
	Septal br - post. part of
	interventricular septum & AV Node

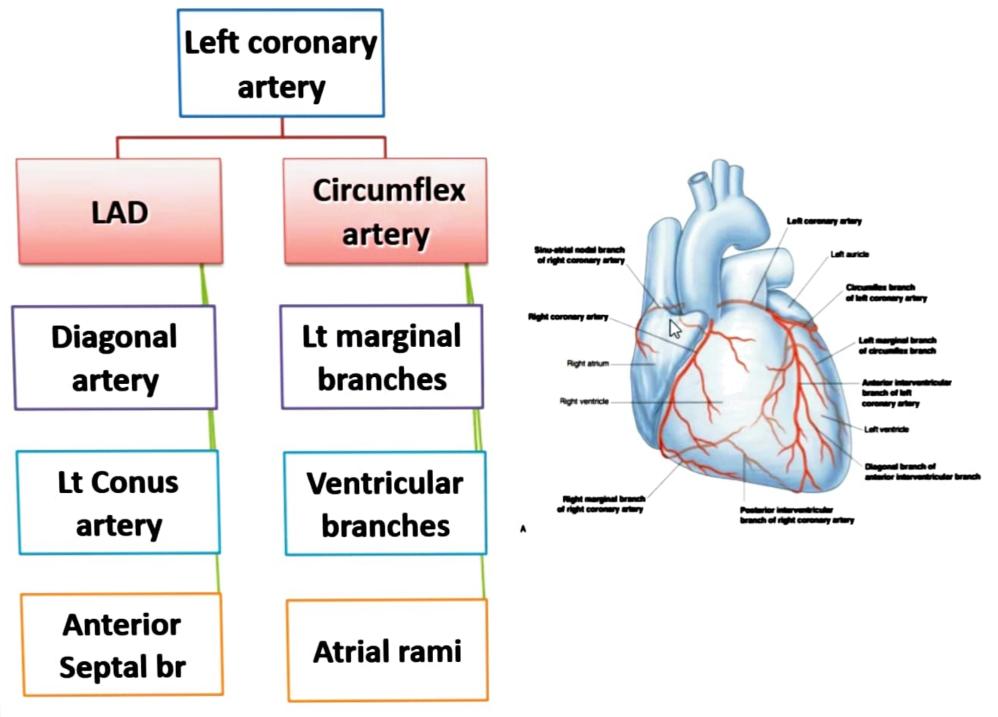
## Area of distribution

#### RT CORONARY ARTERY----

- 1)Right atrium
- 2) Ventricles
- i) greater part of rt. Ventricle except the area adjoining the anterior IV groove.
- ii) a small part of the lt ventricle & adjoining posterior IV groove.
- 3)Posterior part of the IV septum
- 4)Whole of the conducting system of the heart, except part of the left br of AV bundle

# left coronary artery





# Area of distribution

#### **LEFT CORONARY ARTERY**

- 1) Left atrium.
- 2) Ventricles
- i) Greater part of the left ventricle, except the area adjoining the posterior IV groove.
- ii) A small part of the right ventricle adjoining the anterior IV groove.
- 3) Anterior part of the IV septum.
- 4) A part of the left br. Of the AV bundle.

#### VENOUS DRAINAGE OF THE HEART

- The venous drainage of the heart is by three means:
  - Coronary sinus.

- Anterior cardiac veins
- Venae Cordis minimae.

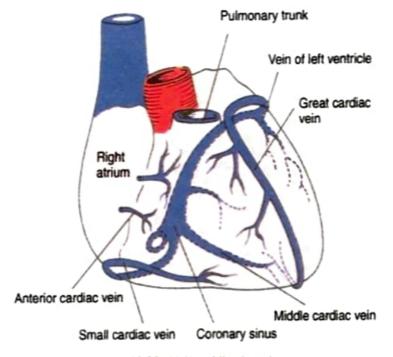
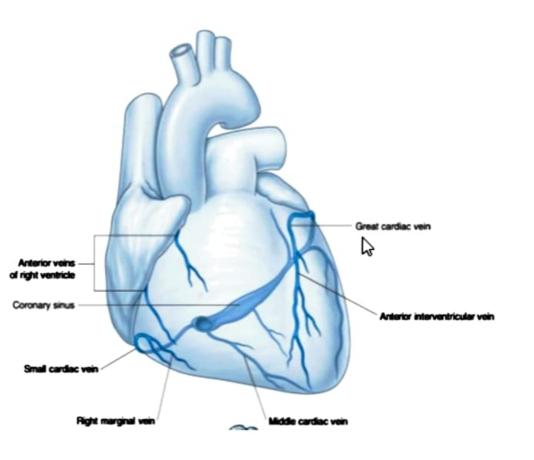
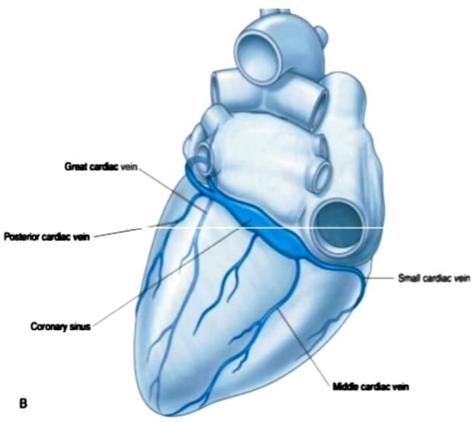


Fig. 18.22: Veins of the heart.

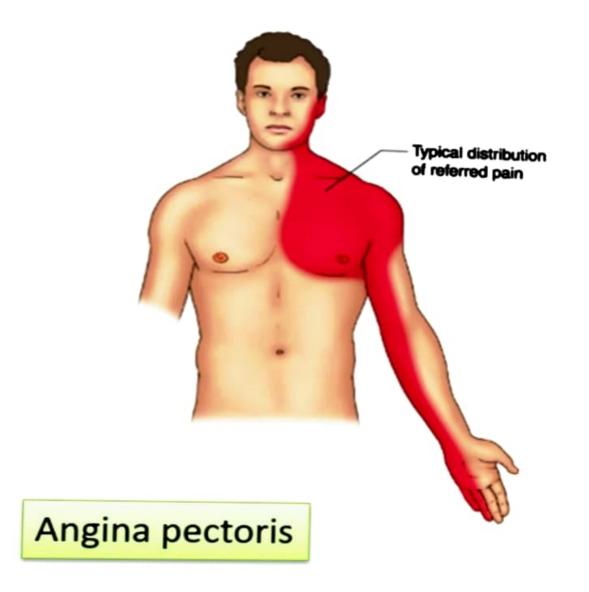


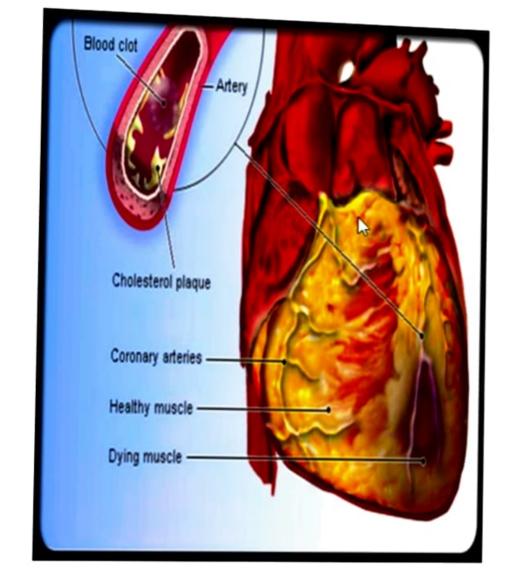


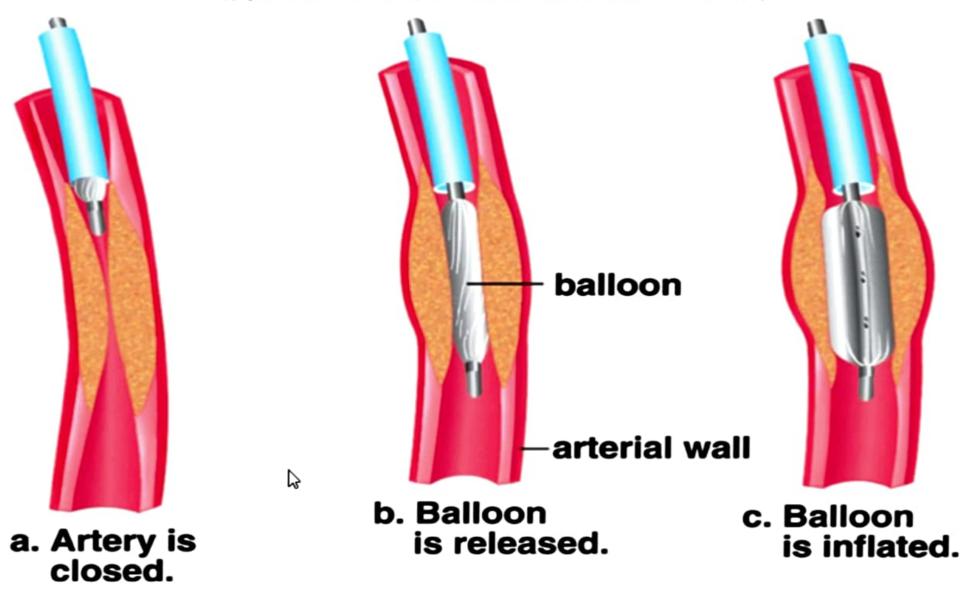
- Great cardiac V
- Middle cardiac V
- Small cardiac V
- Right marginal V
- Oblique V of left atrium

Drains into coronary sinus which opens into right atrium

- Anterior cardiac V
- Venae cordis minimi







**Angioplasty**