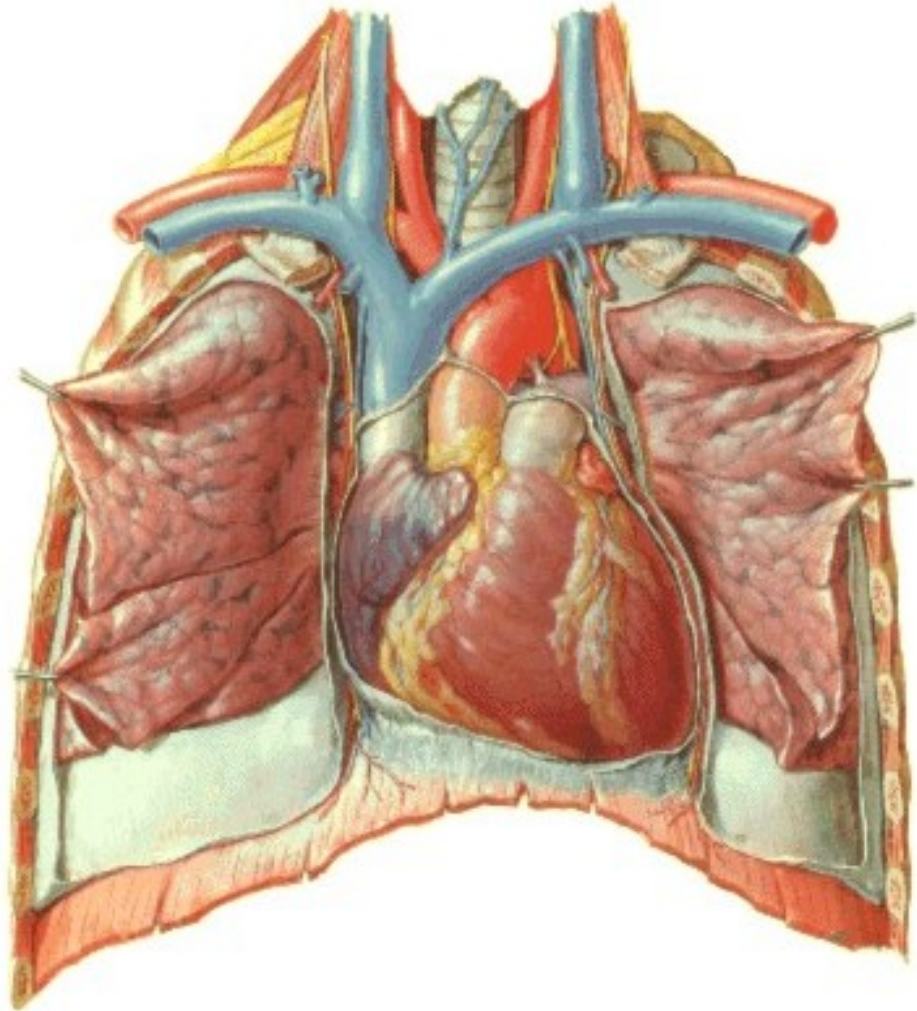
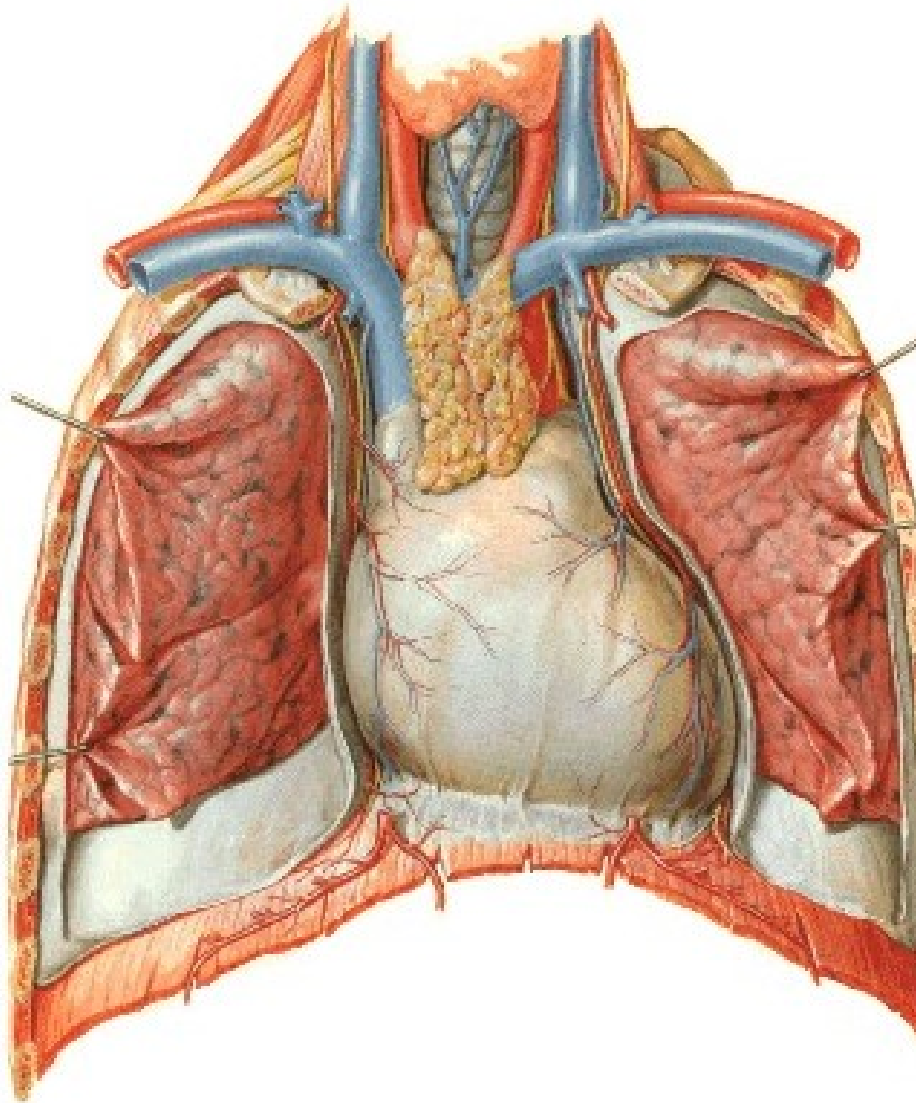
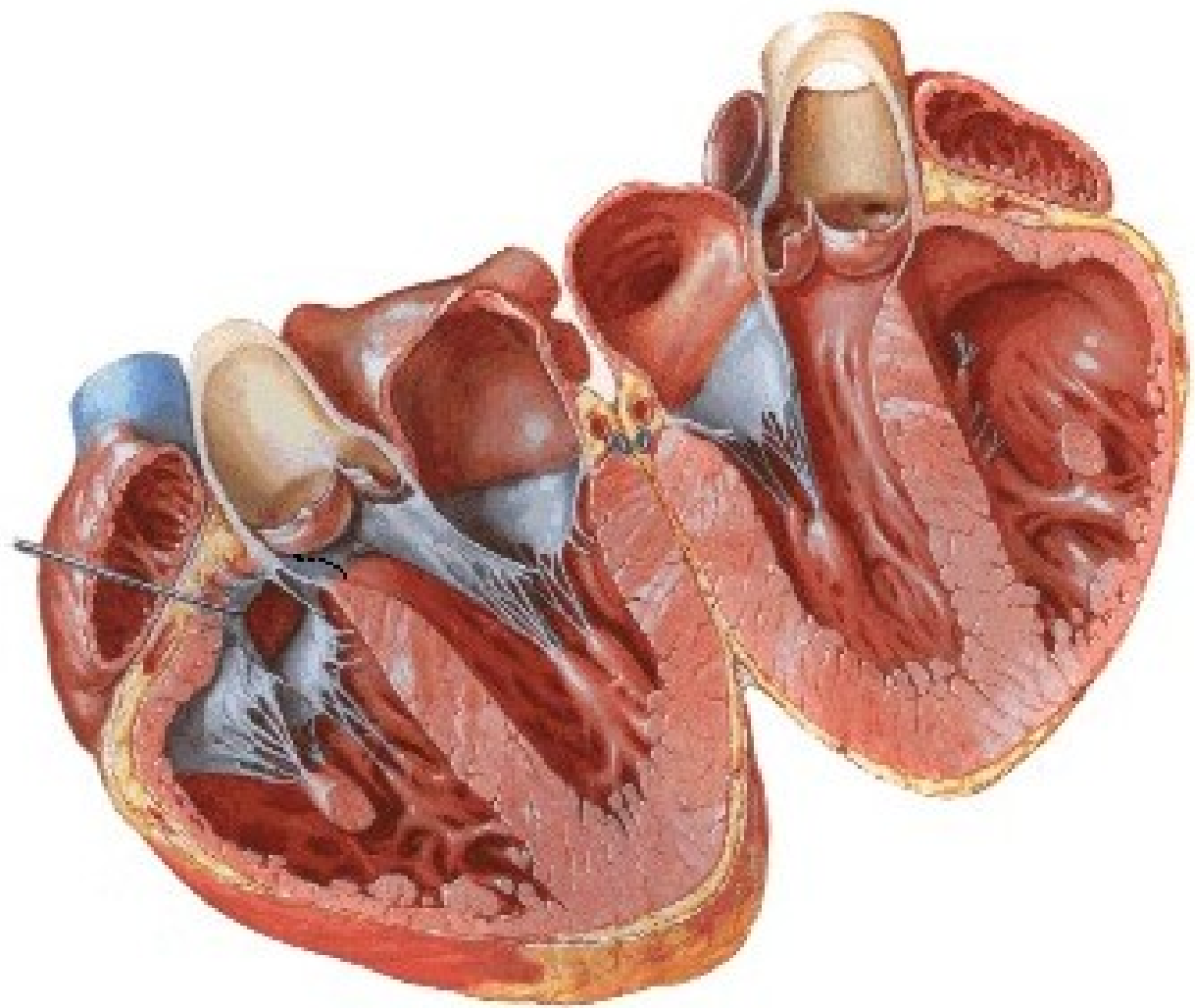


**HEART**

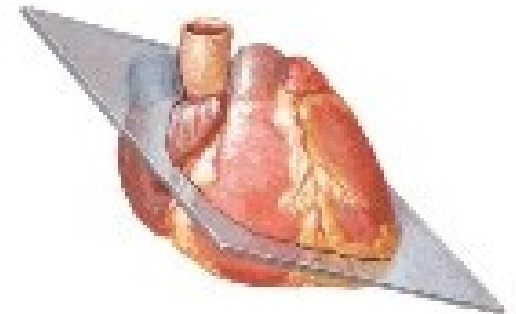
# COR



**Atrium**  
**Ventriculus**



**Septum interatriale**  
**Septum interventriculare**



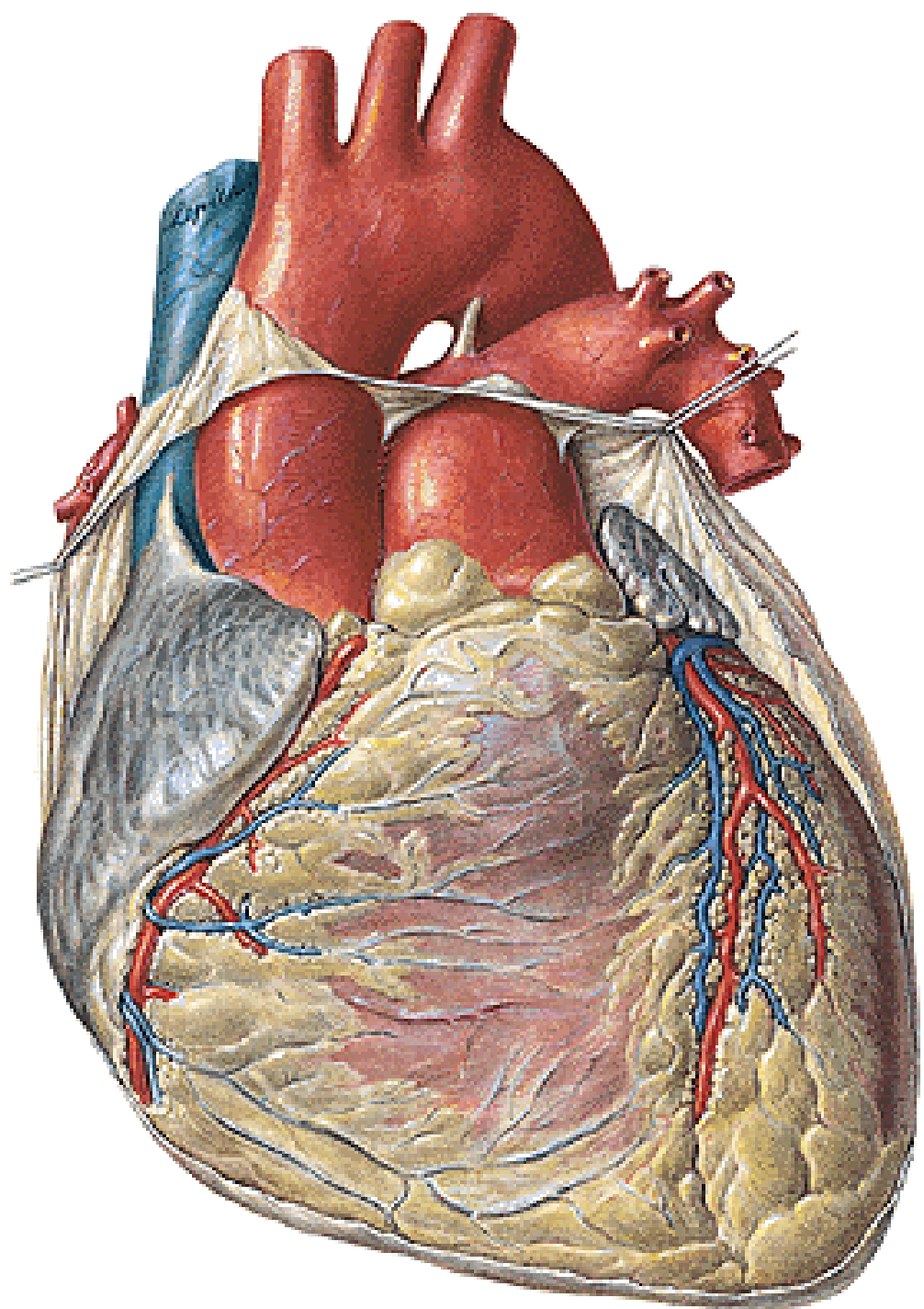
# COR

**Atrium dextrum**

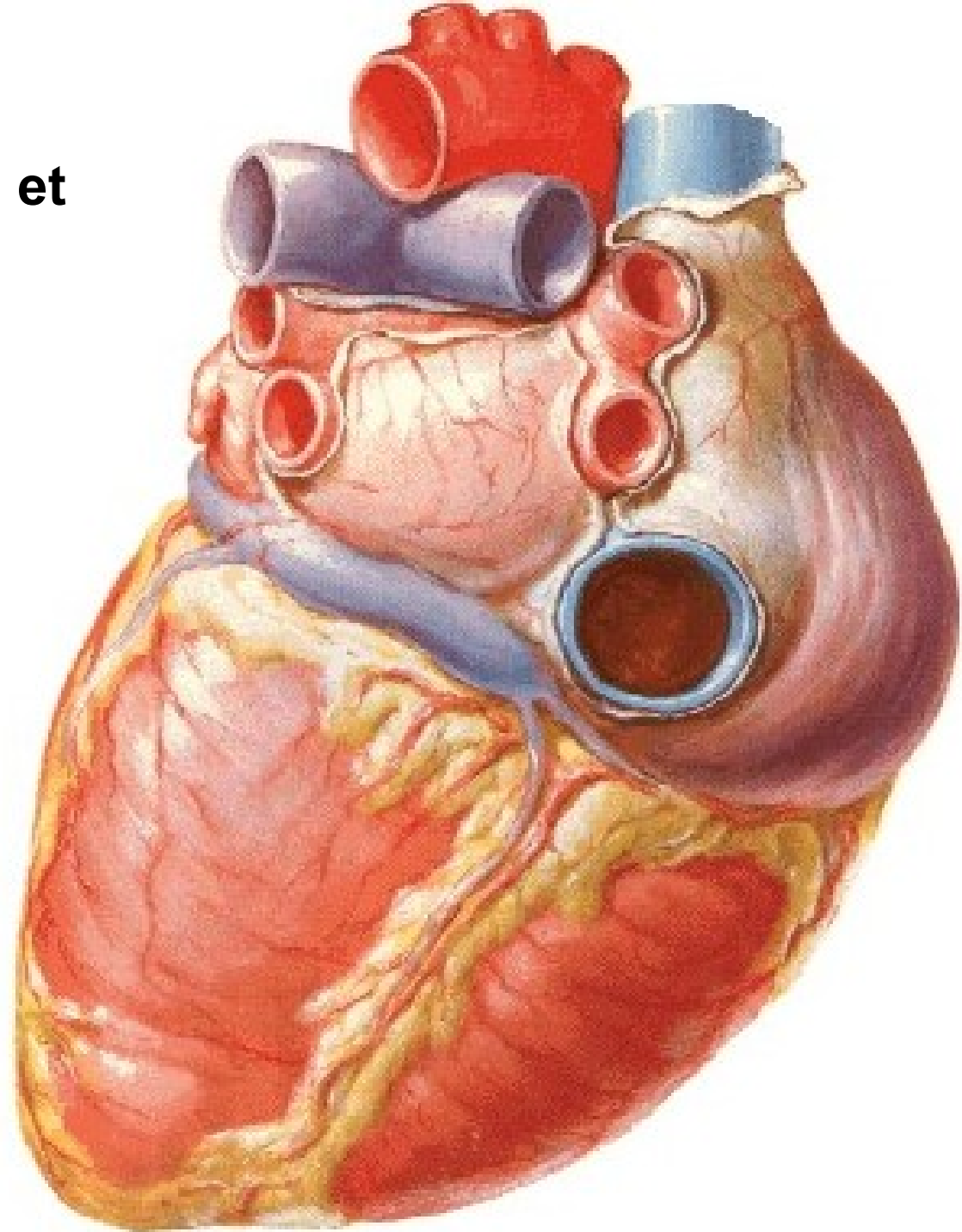
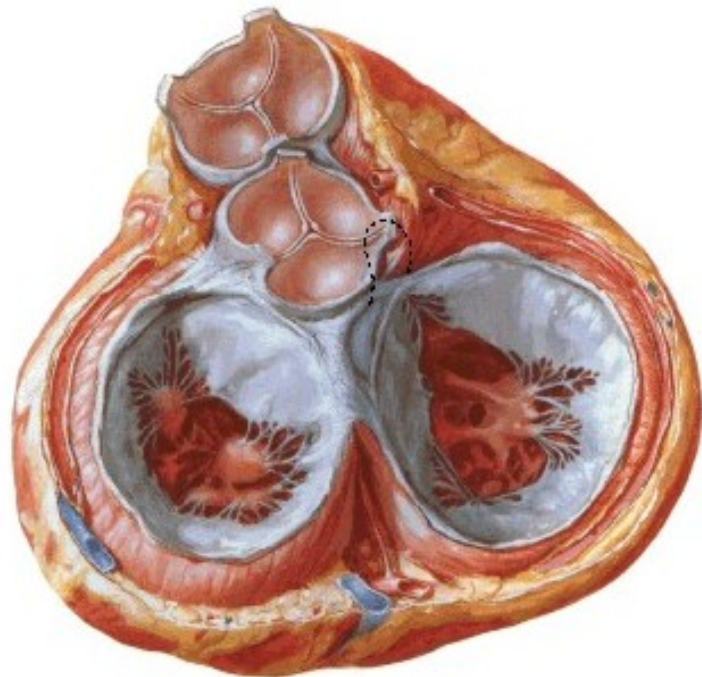
- vena cava sup. et inf.

**Ventriculus dexter**

- truncus pulmonalis



**Atrium sinistrum**  
**vv. pulmonales dextrae et**  
**sinistrae**  
**Ventriculus sinister**  
**- aorta**



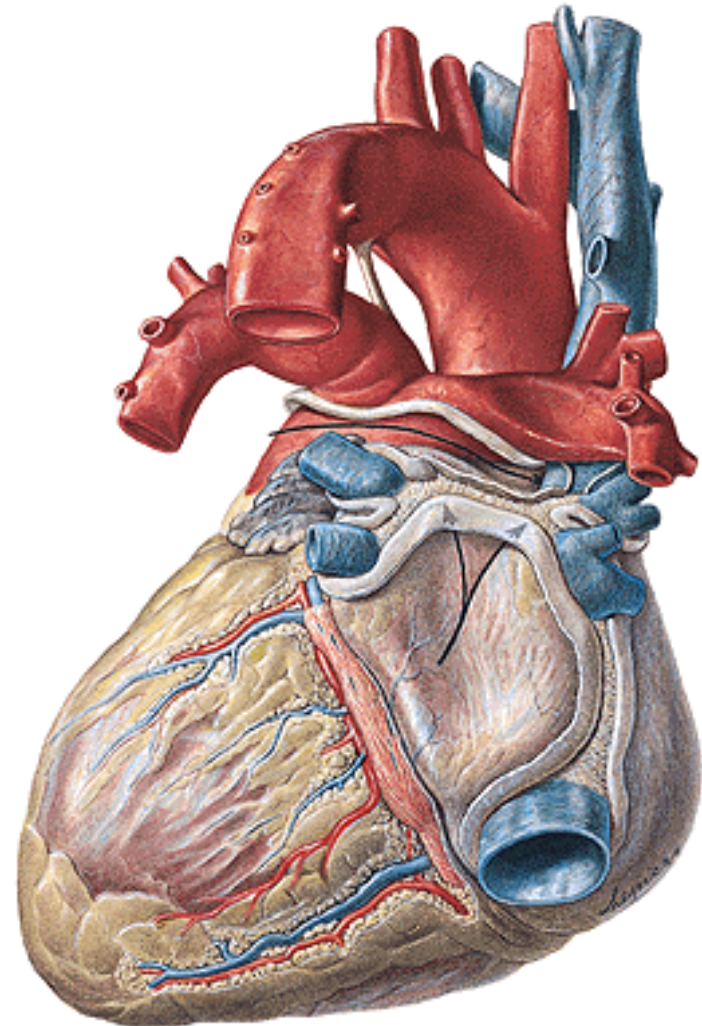
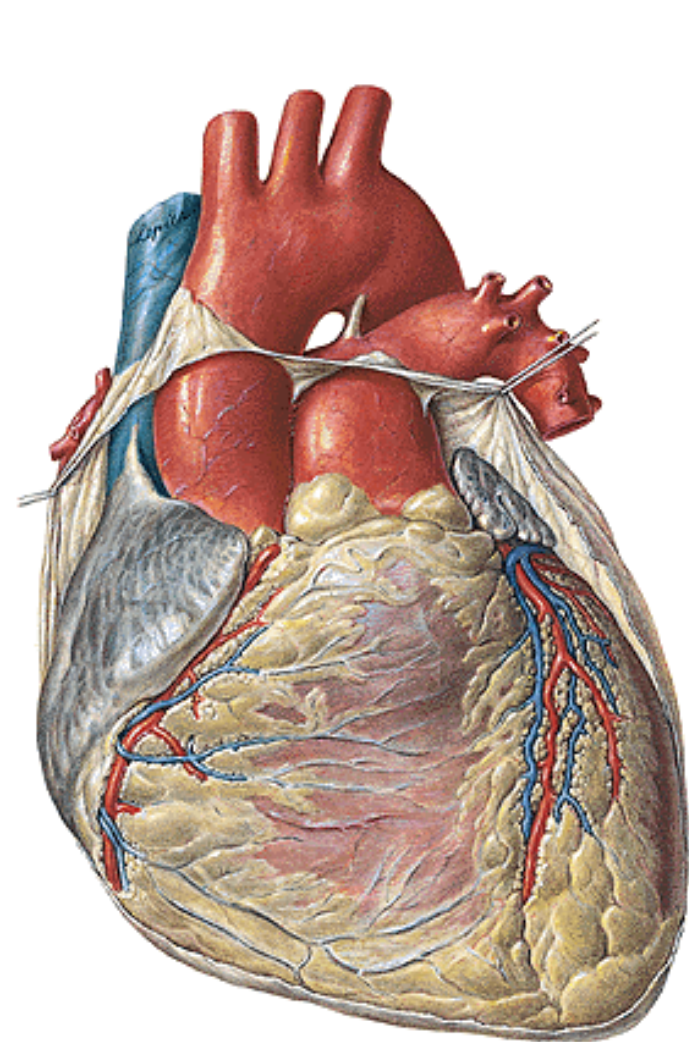
**Basis, apex**

**Facies sternocostalis et diaphragmatica**

**Margo dexter (acutus) et sinister (obtusus, facies pulmonalis)**

**Sulcus coronarius, sulcus interventricularis ant. et post.**

**Auricula dextra et sinistra**



# **ATRIUM DEXTRUM**

**Septum interatriale –  
fossa ovalis – limbus fossae ovalis**

**Ostium v. cavae sup.**

**Ostium v. cavae inf. –  
valvula v. cavae inf.**

**Ostium sinus coronarii –  
valvula sinus coronarii**

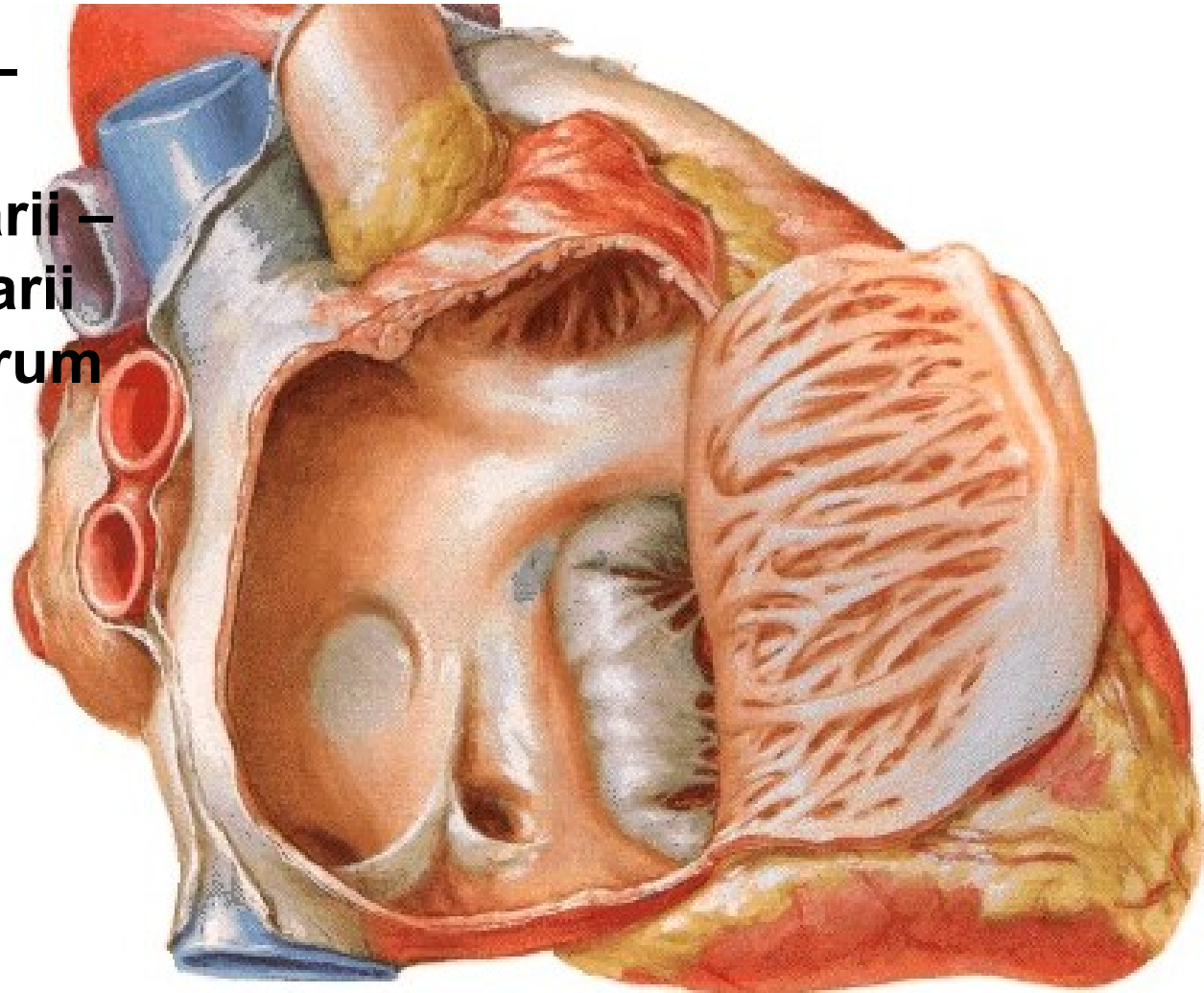
**Sinus venarum cavarum**

**Torus intervenosus**

**Crista terminalis**

**Auricula dextra –  
musculi pectinati**

**Valva tricuspidalis**



# **VENTRICULUS DEXTER**

**Pars trabecularis - trabeculae carnea**

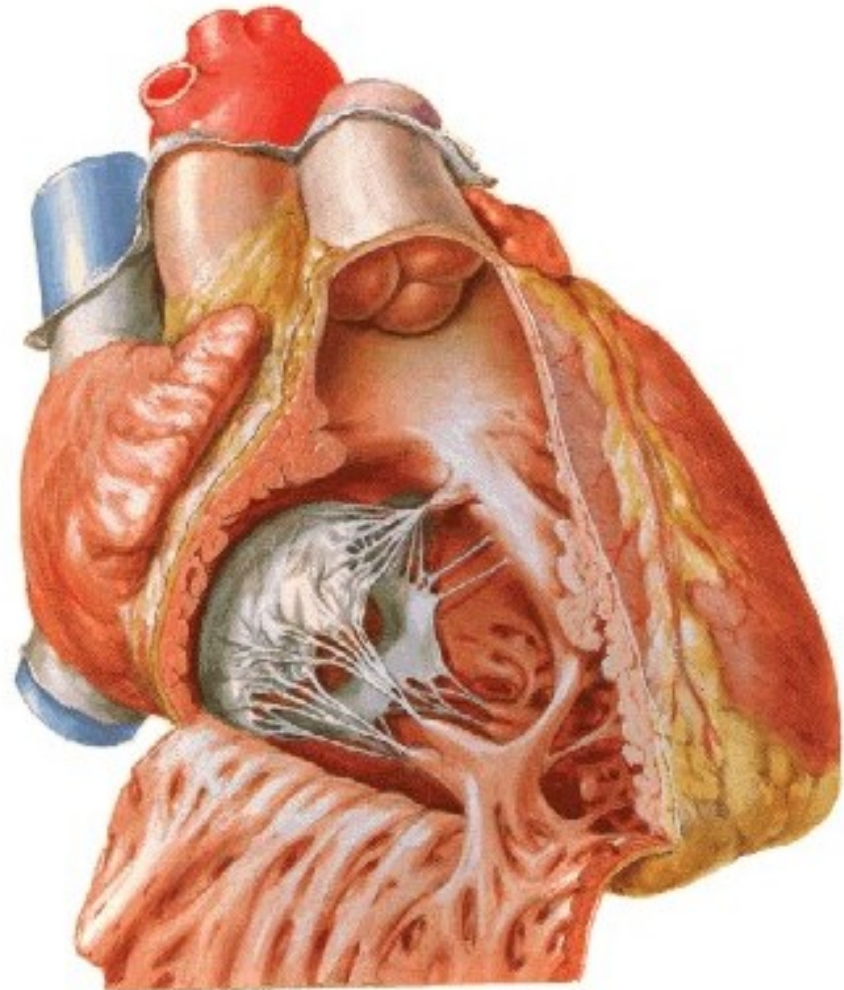
**Ostium atrioventriculare dextrum, valva tricuspidalis**

**– cuspis ant., septalis, post.**

**Musculi papillares (anterior, posterior, septales)**

**Trabecula septomarginalis**

**Chordae tendineae**

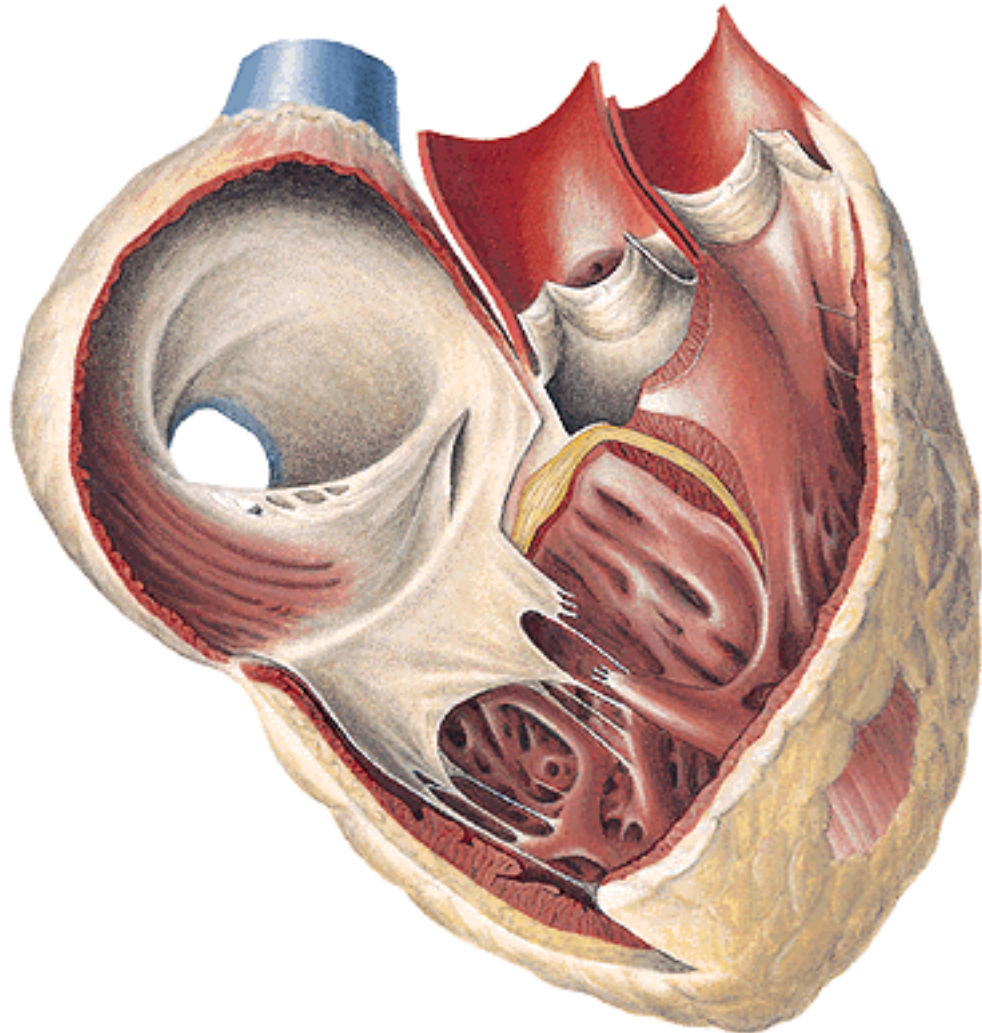
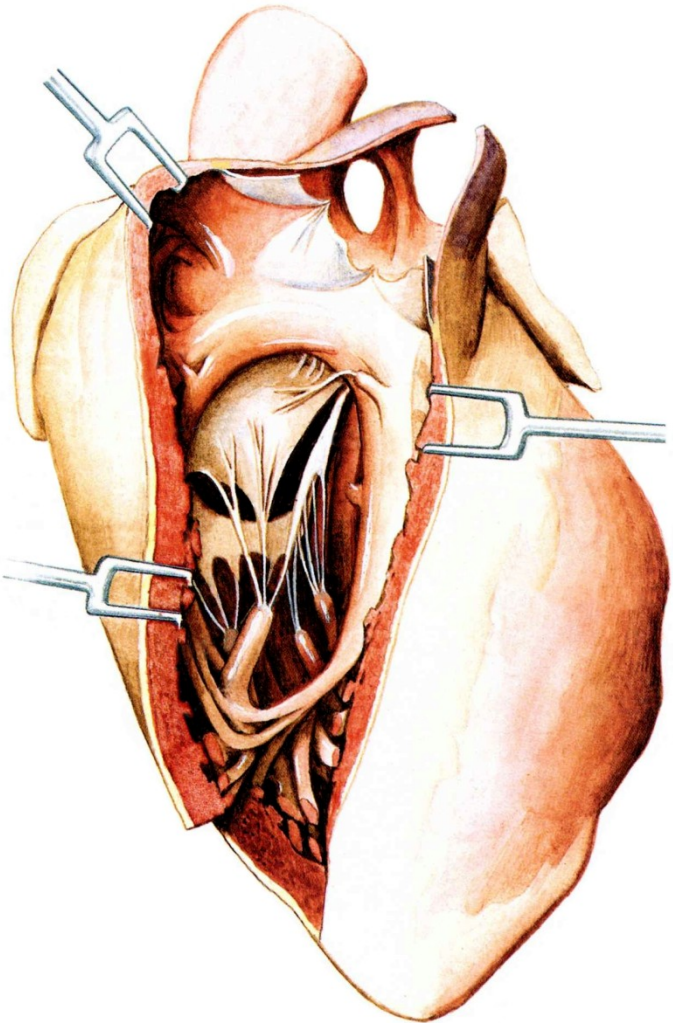




# VENTRICULUS DEXTER

Pars glabra – conus arteriosus, crista supraventricularis

Ostium trunci pulmonalis – valva trunci pulmonalis –  
valvula semilunaris ant., dx., sin. – lunula, nodulus, sinus



# ATRIUM SINISTRUM

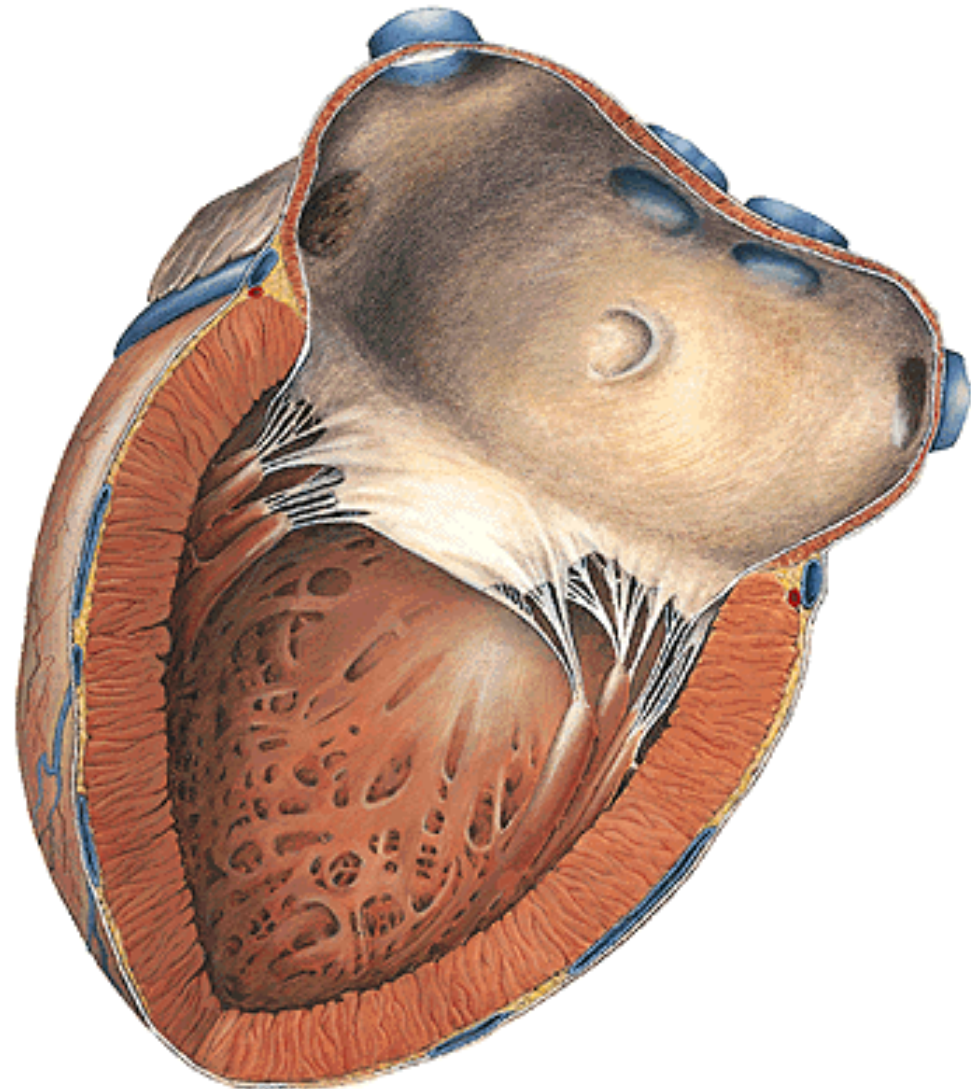
Ostia venarum pulmonalium

Auricula sinistra

Musculi pectinati

Septum interatriale –

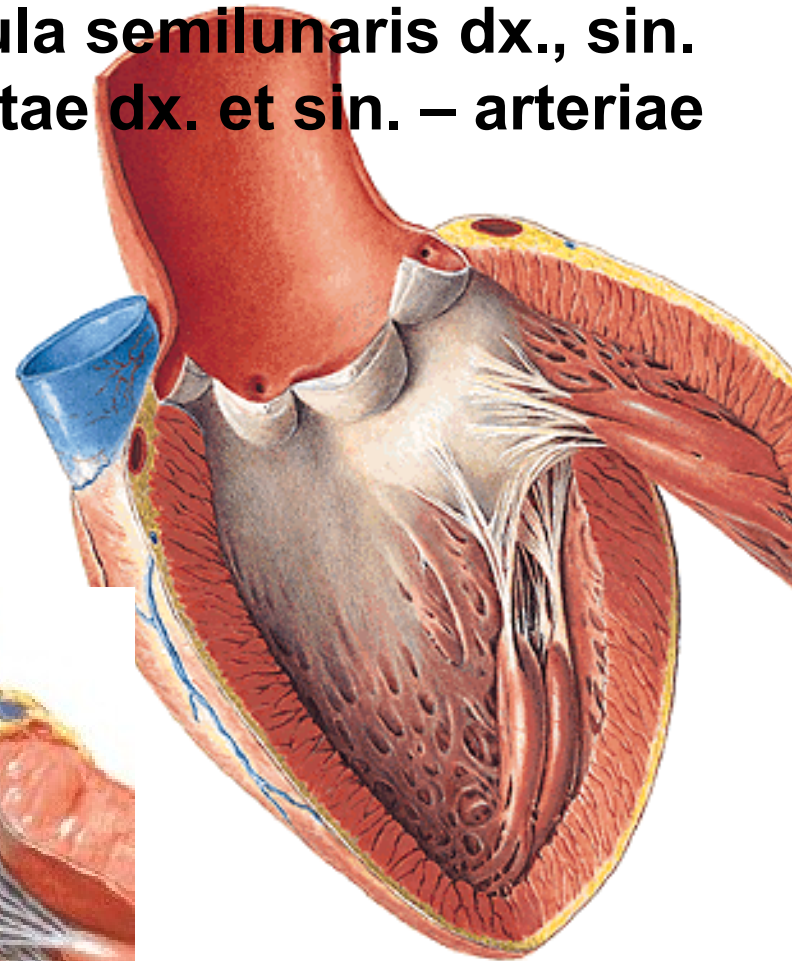
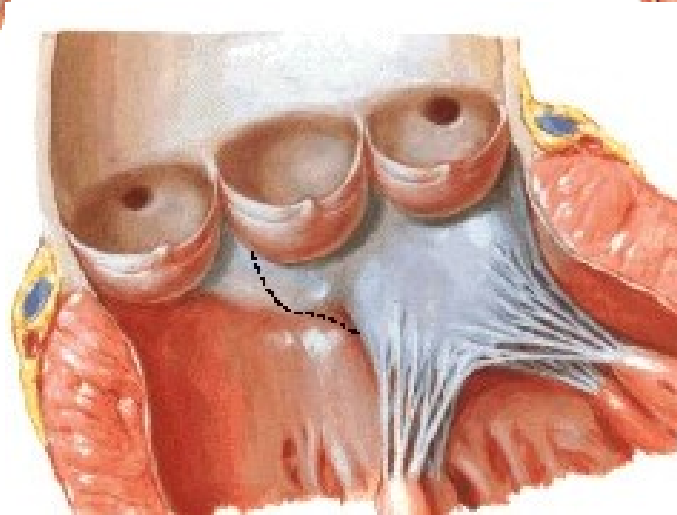
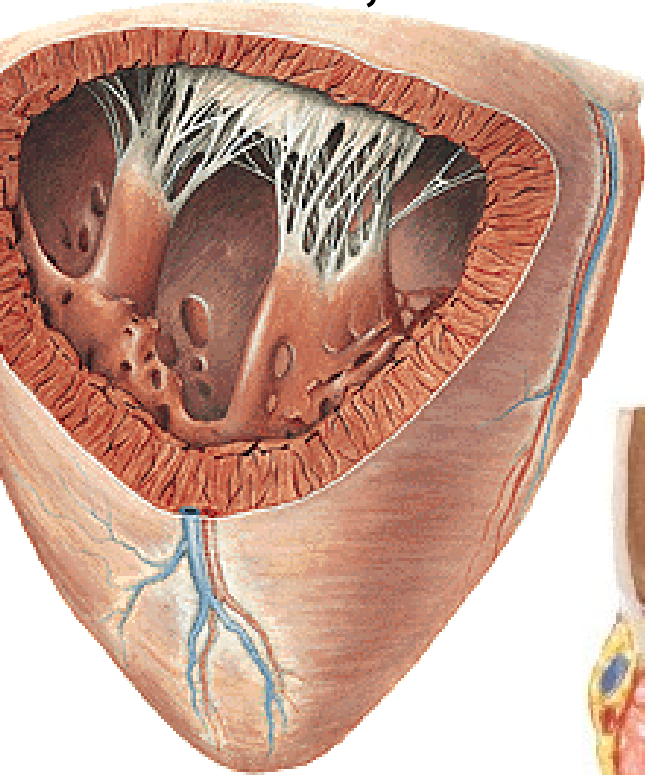
fossa ovalis – falx septi



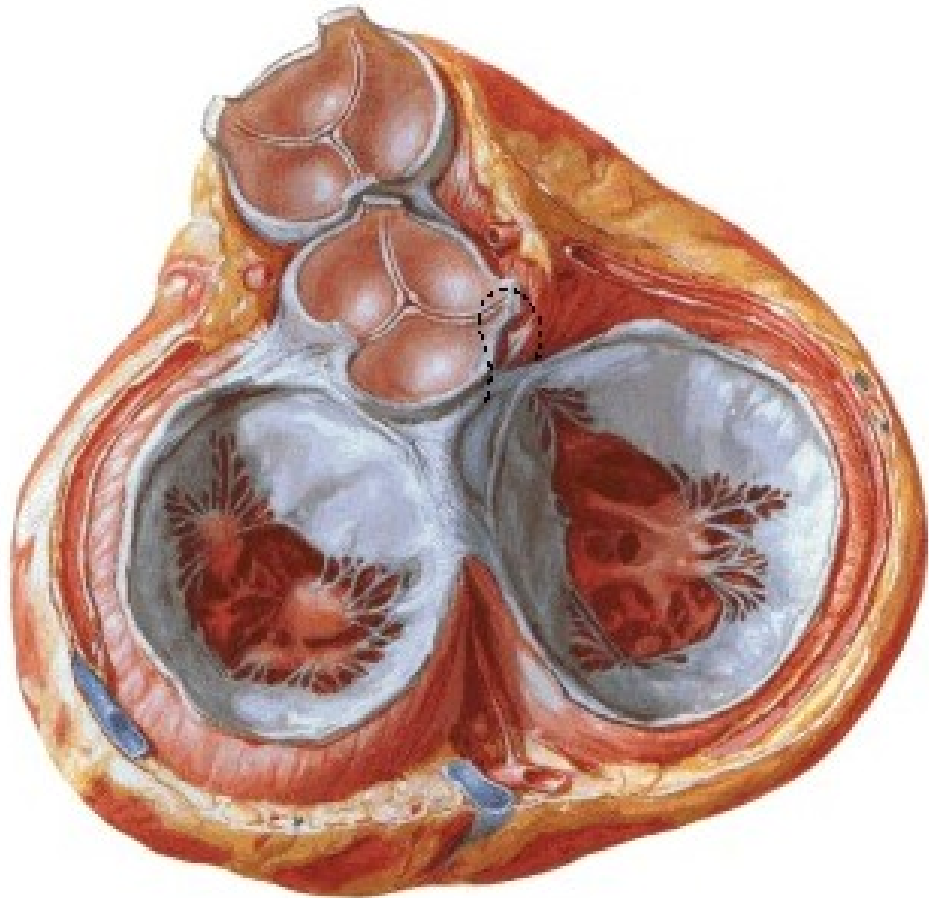
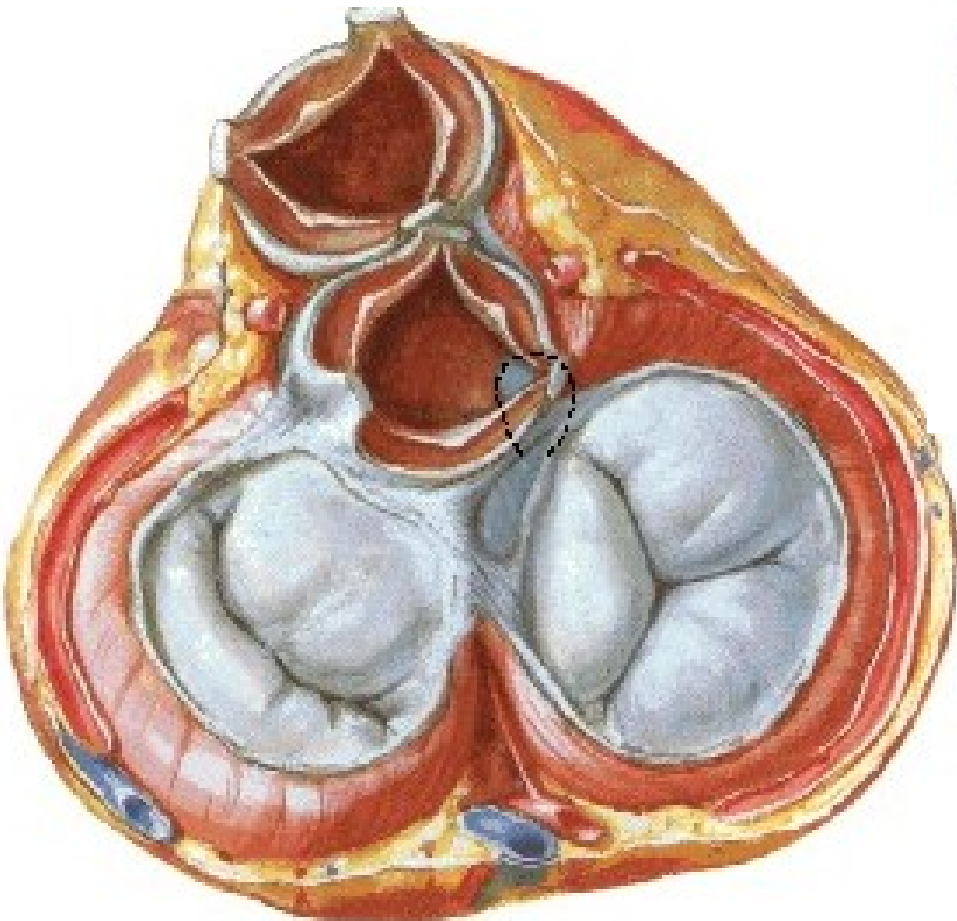
# VENTRICULUS SINISTER

Ostium atrioventriculare sin.– valva bicuspidalis (mitralis) –  
cuspid ant. et post. – m. papillaris ant. et post. – chordae  
tendineae

Ostium aortae – valva aortae – valvula semilunaris dx., sin.  
et post. – lunula, nodulus, sinus aortae dx. et sin. – arteriae  
coronariae, bulbus aortae

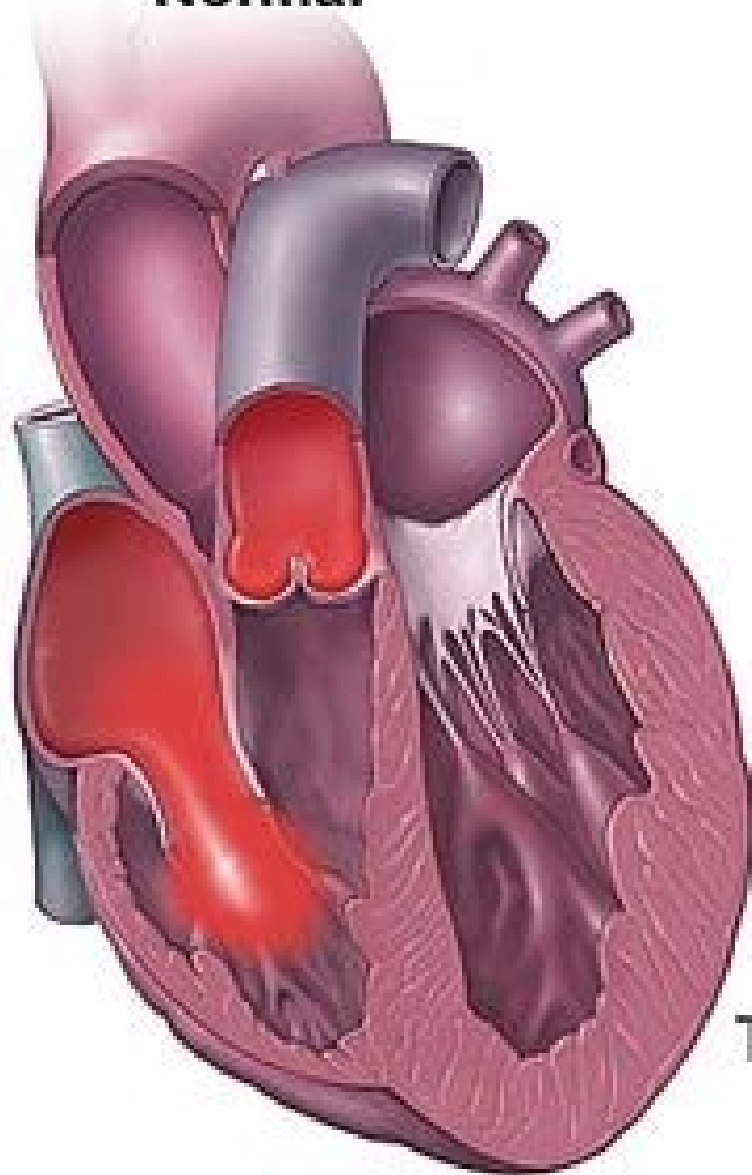


**SYSTOLE**

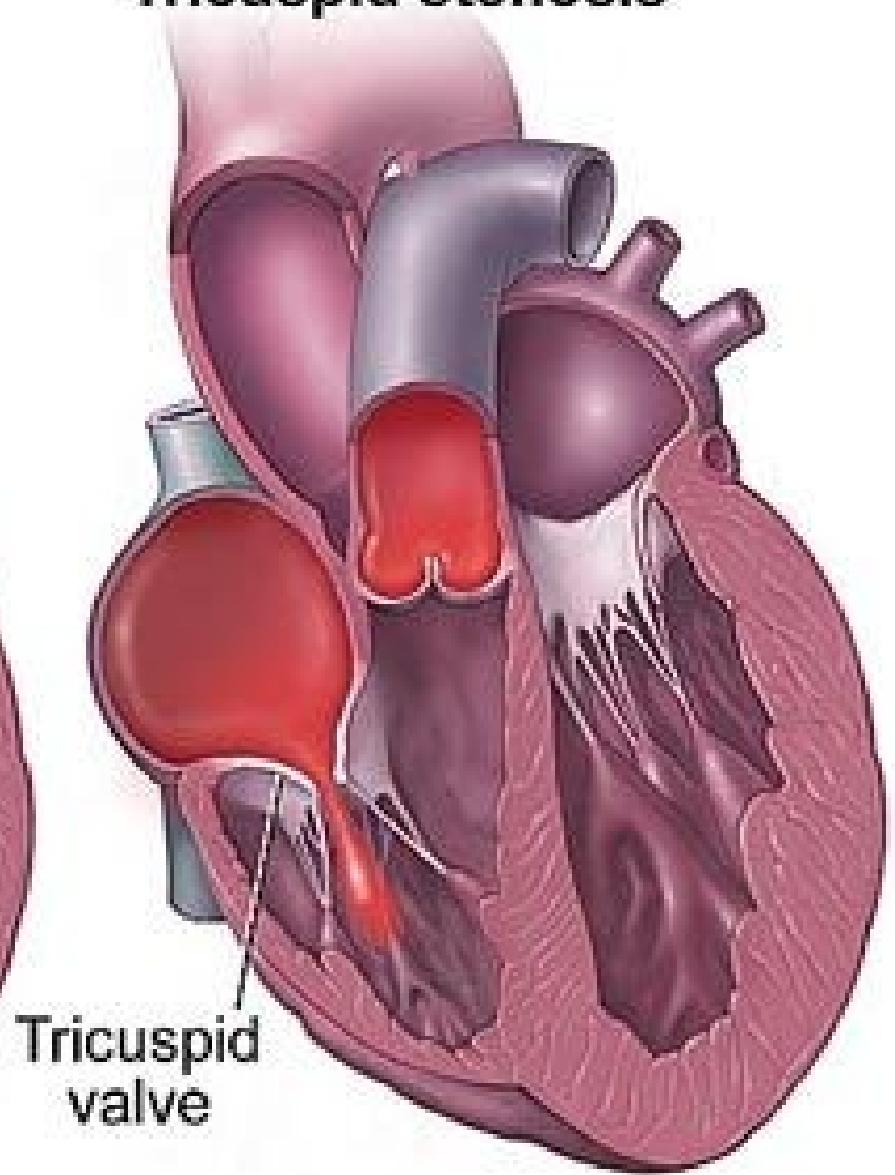


**DIASTOLE**

**Normal**

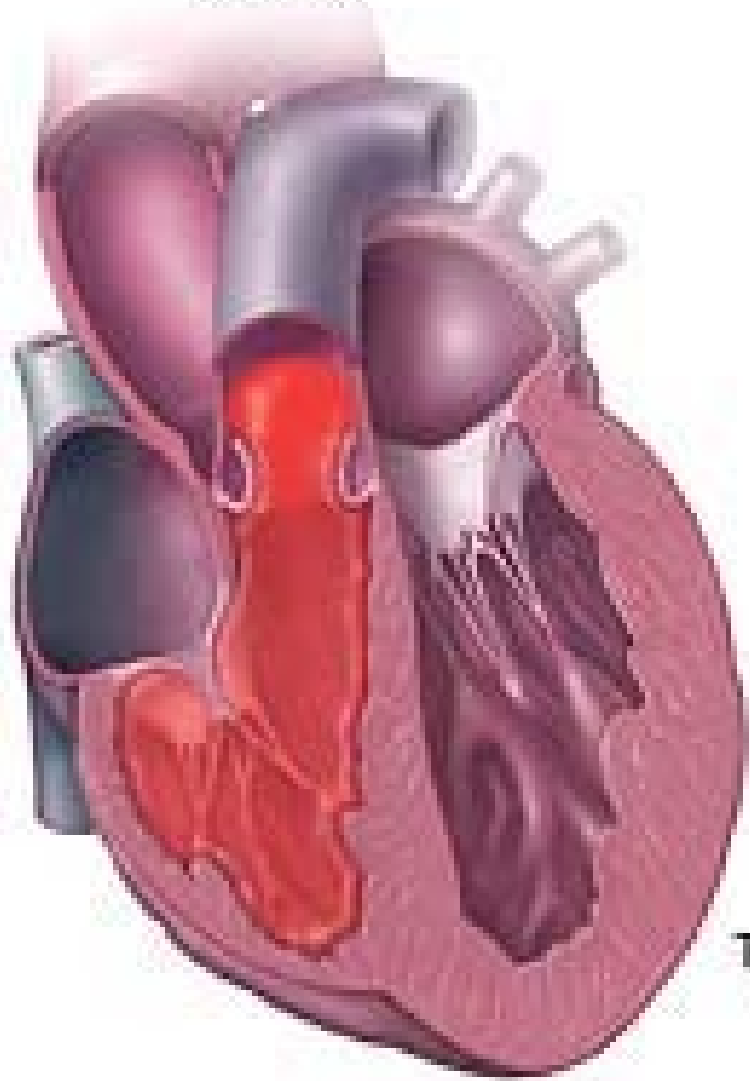


**Tricuspid stenosis**

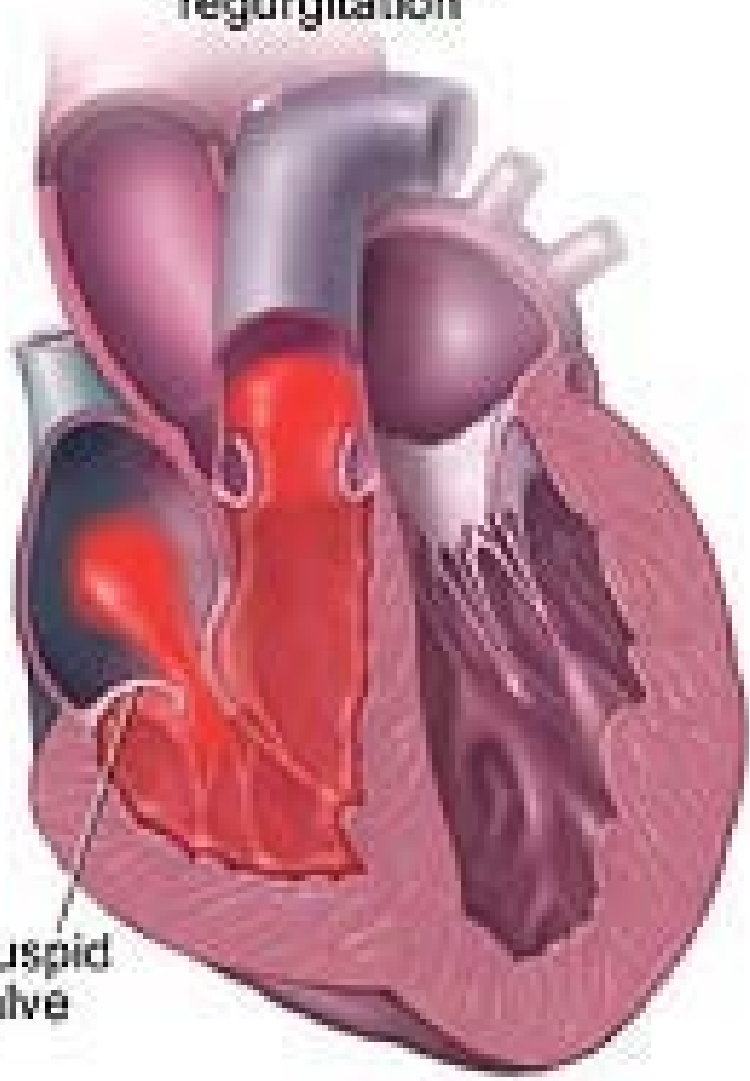


Tricuspid  
valve

Normal



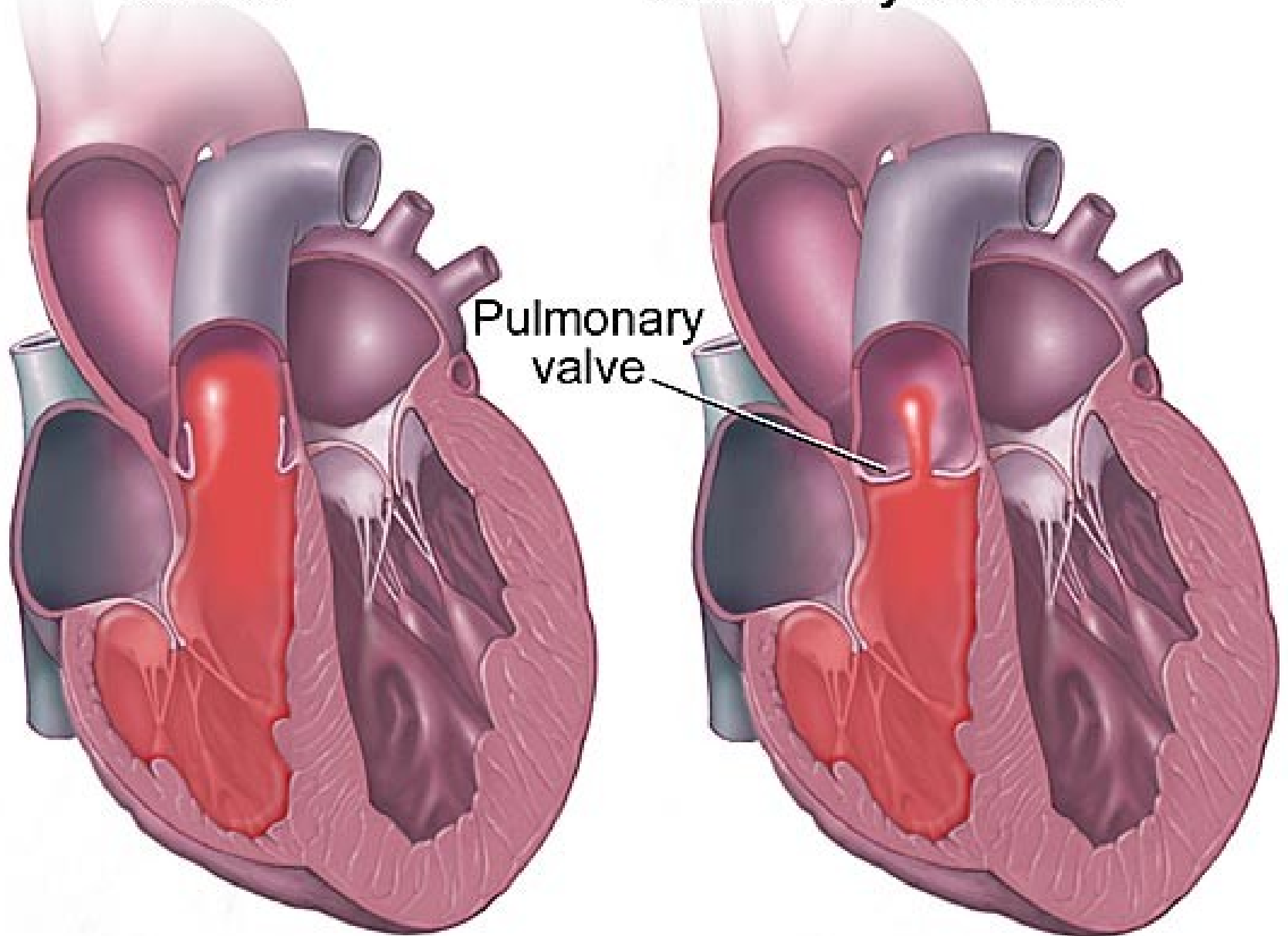
Tricuspid valve regurgitation



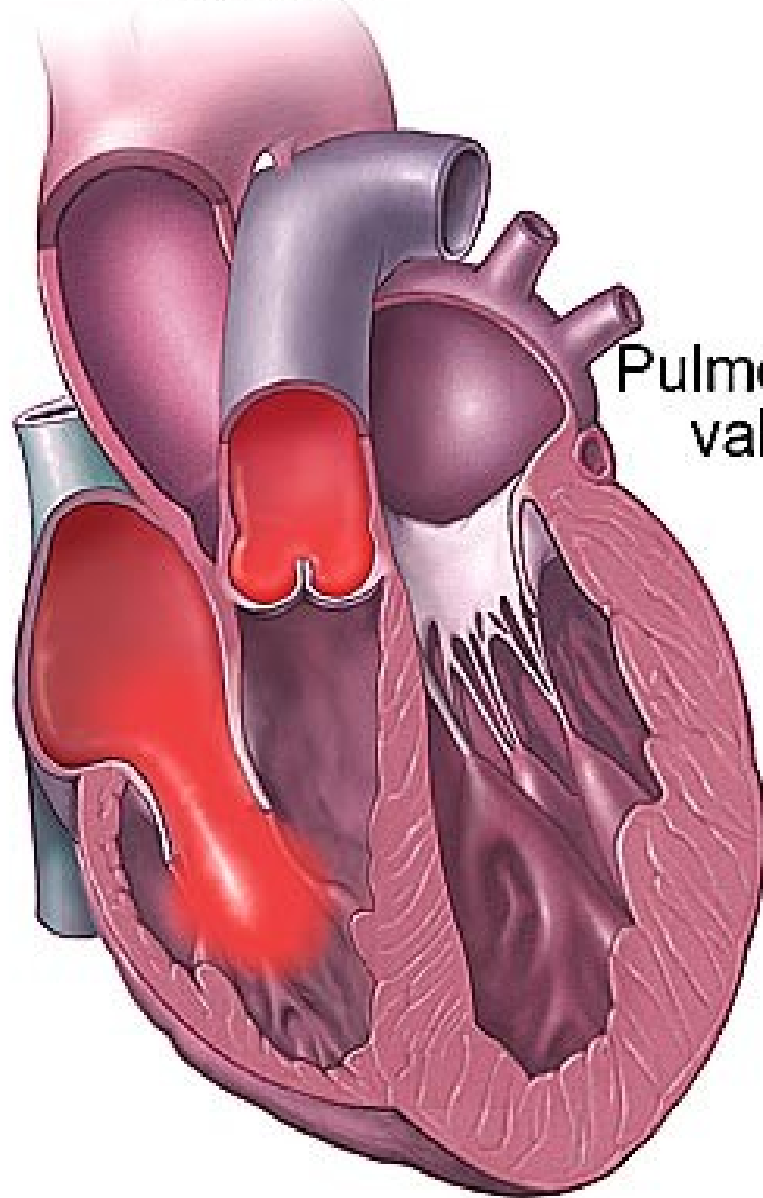
Tricuspid valve

**Normal**

**Pulmonary stenosis**

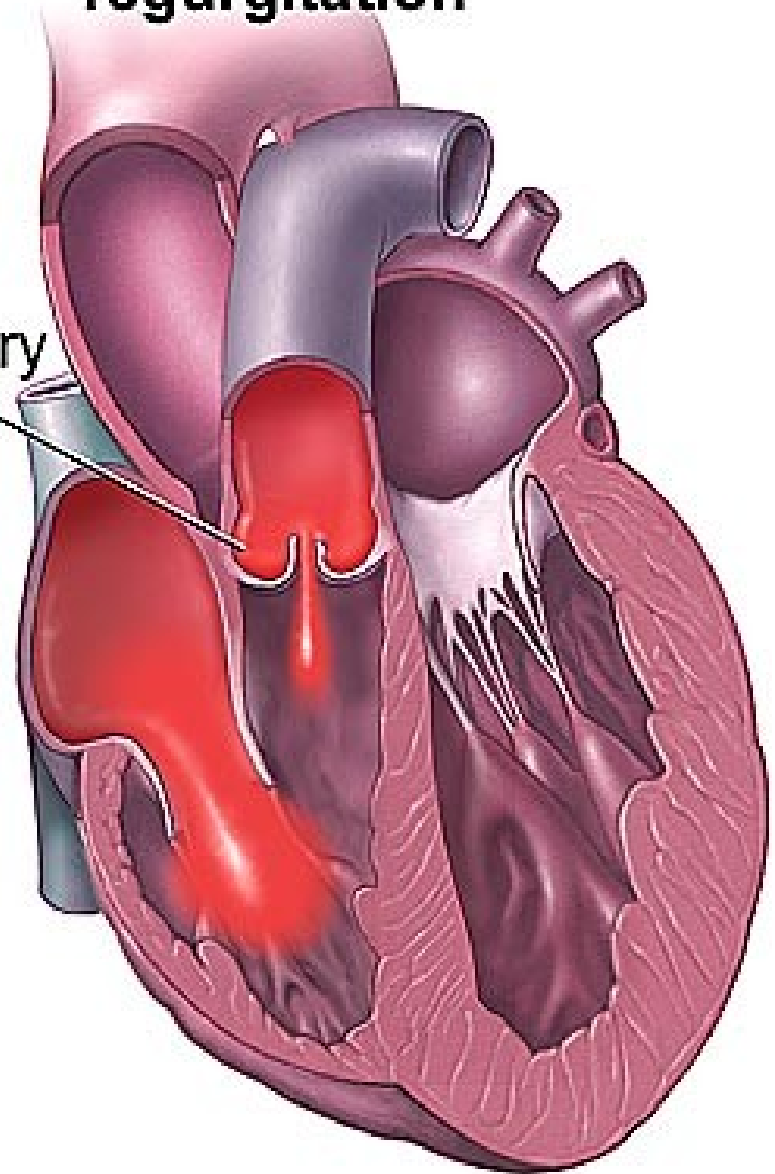


**Normal**



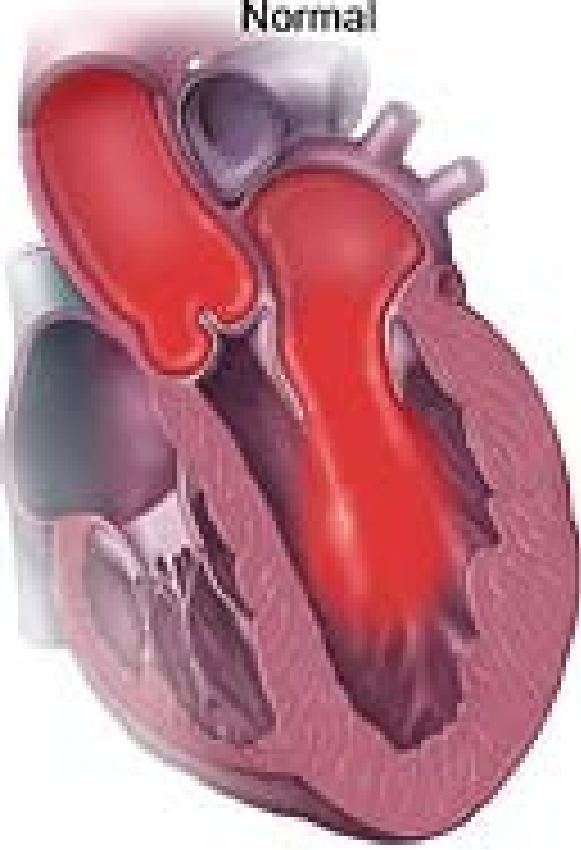
**Pulmonary regurgitation**

Pulmonary valve

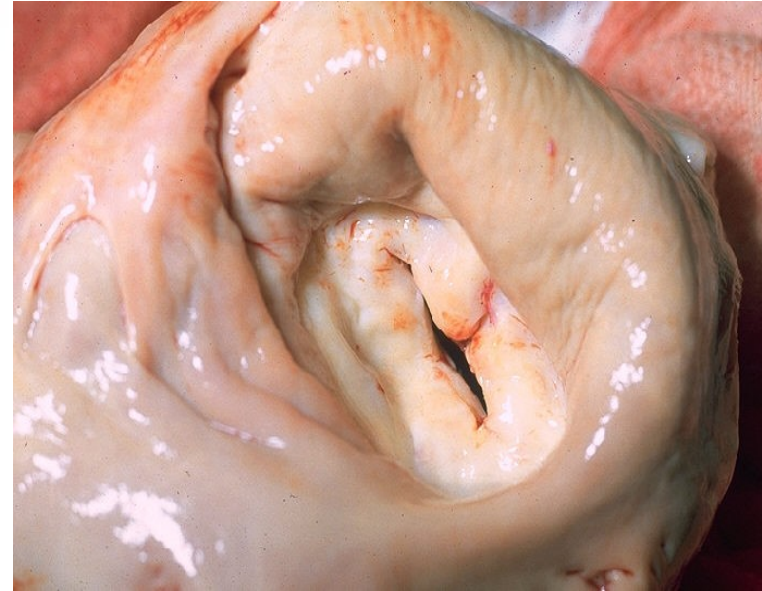
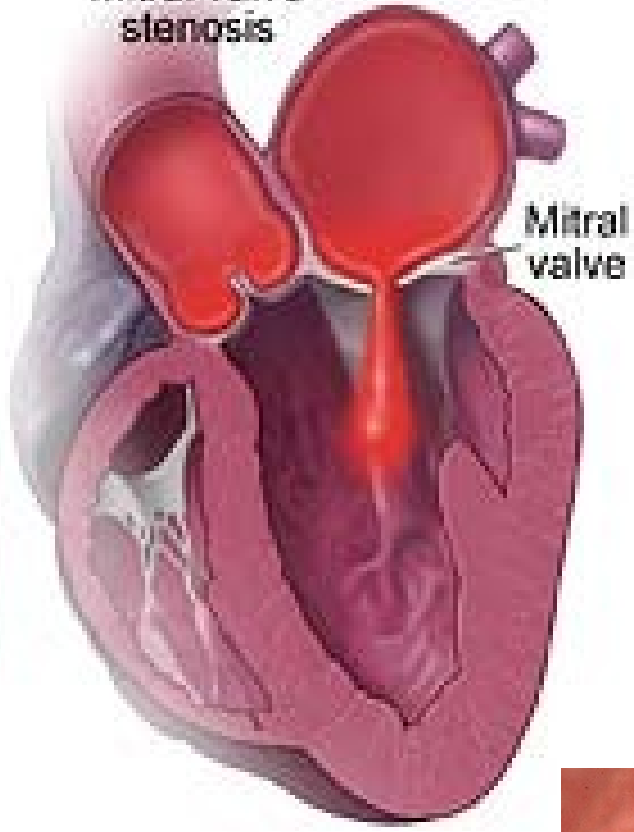


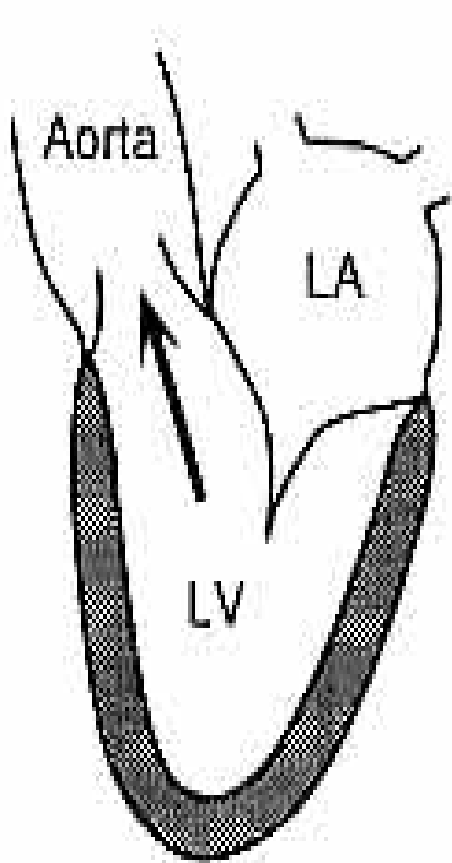


Normal

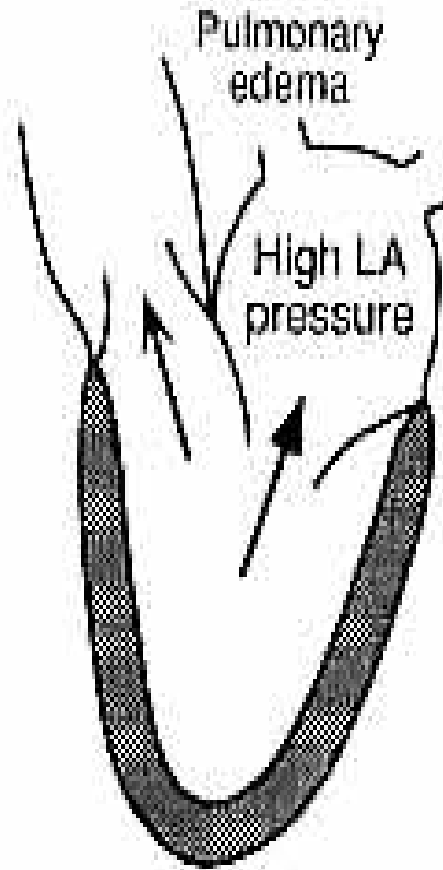


Mitral valve stenosis

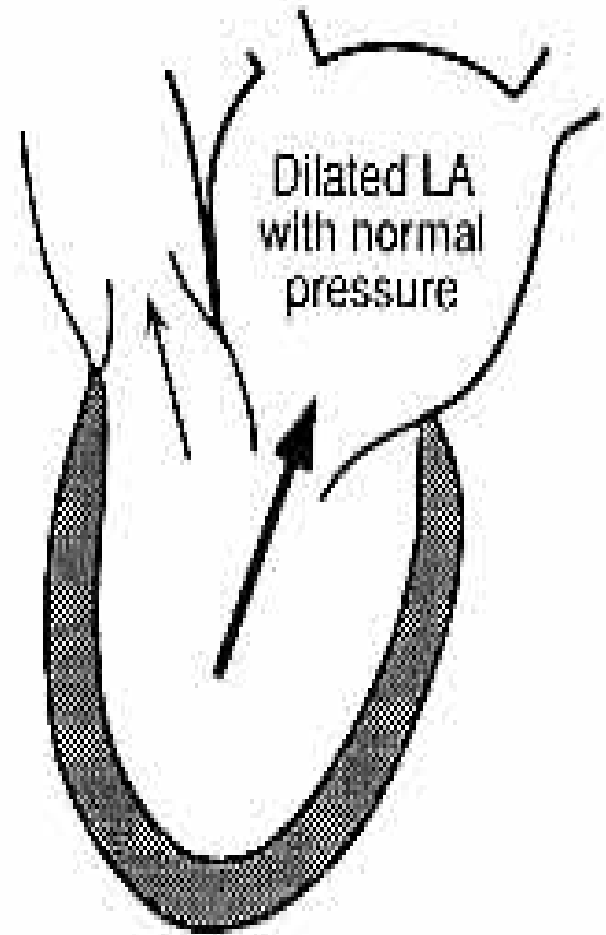




NORMAL  
(SYSTOLE)

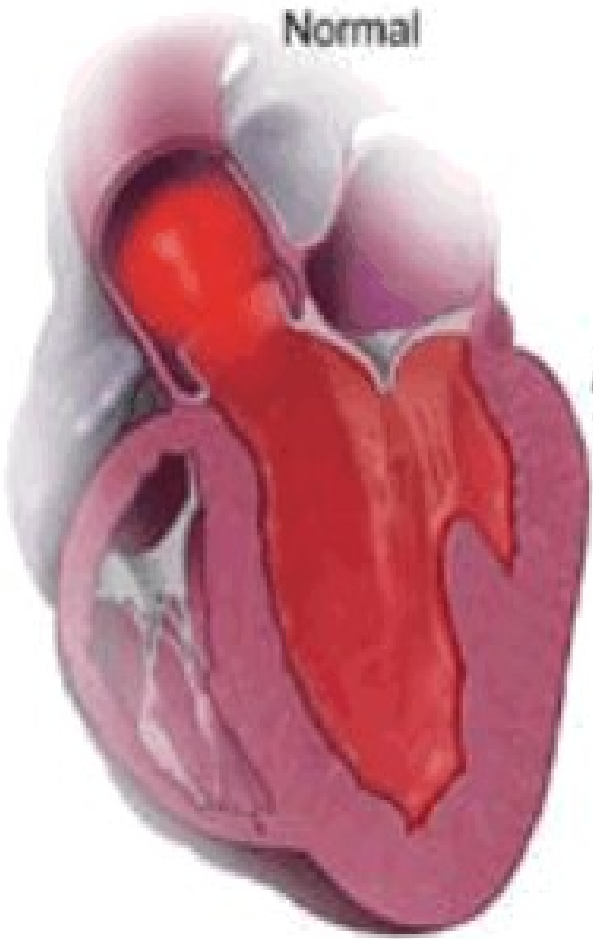


ACUTE  
MITRAL  
REGURGITATION



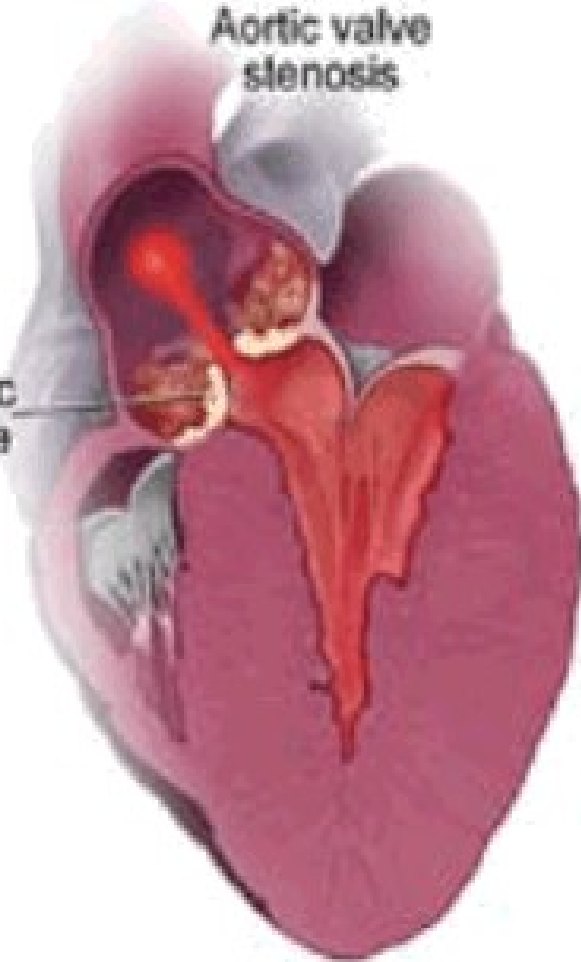
CHRONIC  
MITRAL  
REGURGITATION

Normal

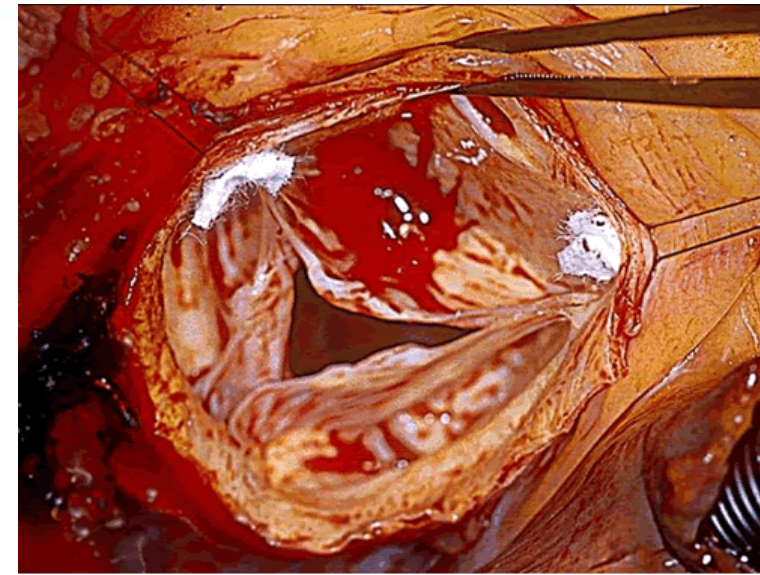
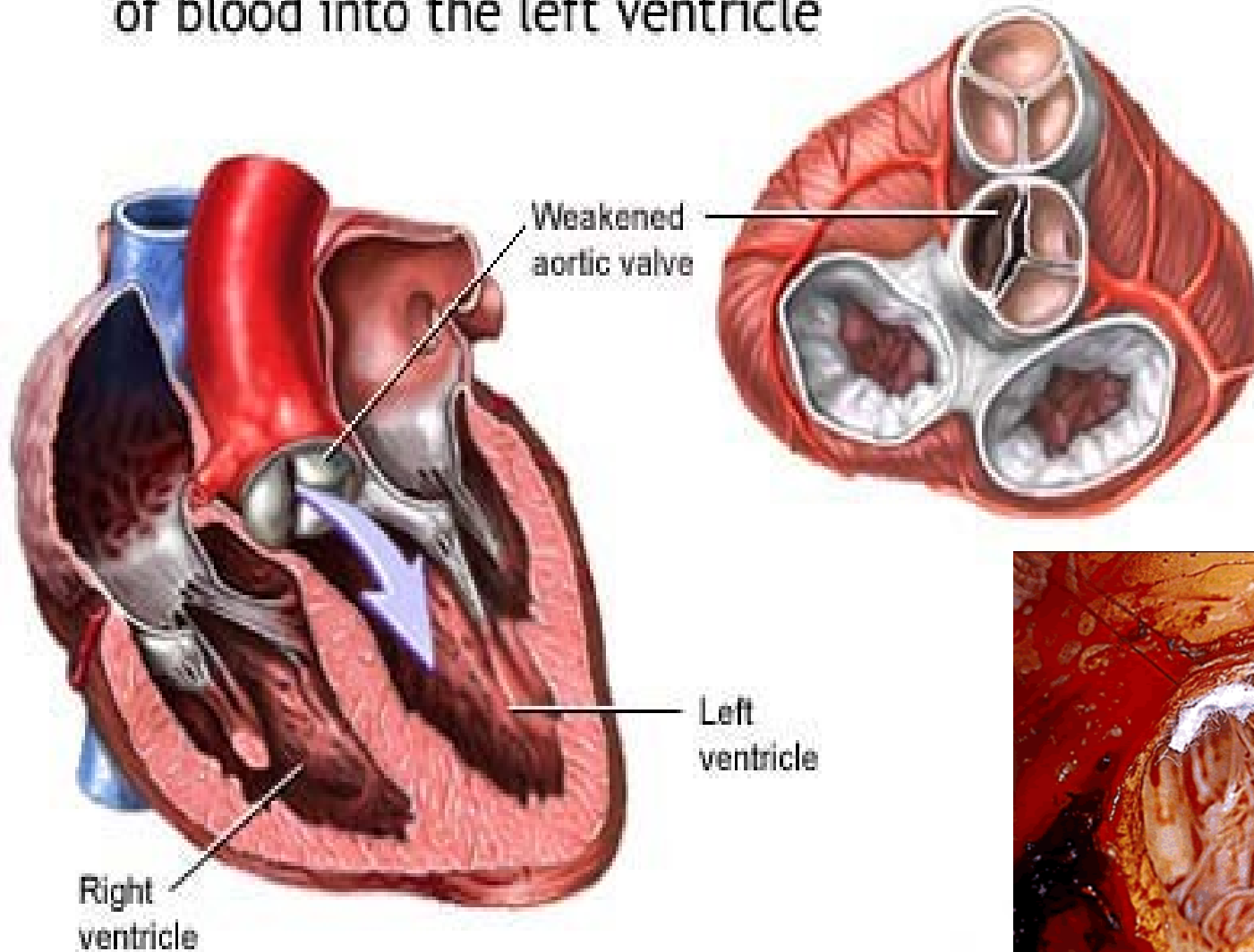


Aortic valve stenosis

Aortic valve



Failure of the aortic valve to close tightly causes back flow of blood into the left ventricle



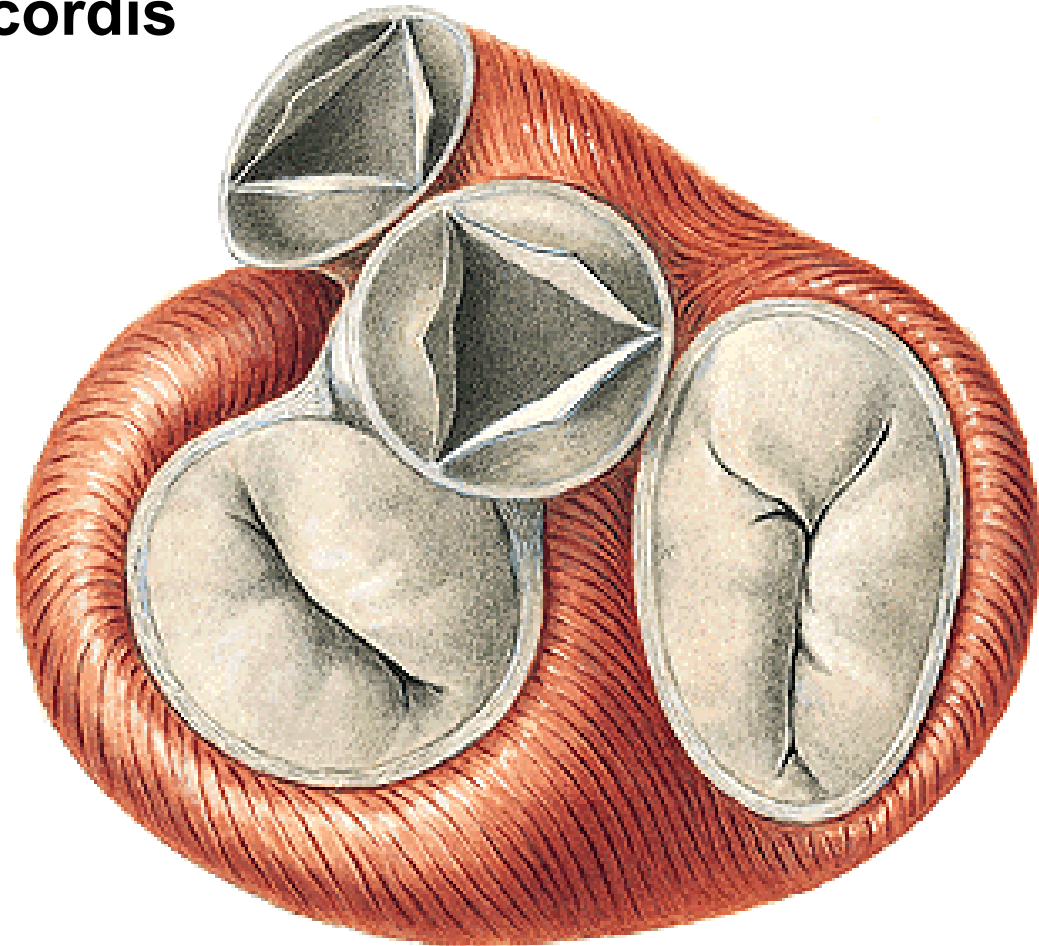
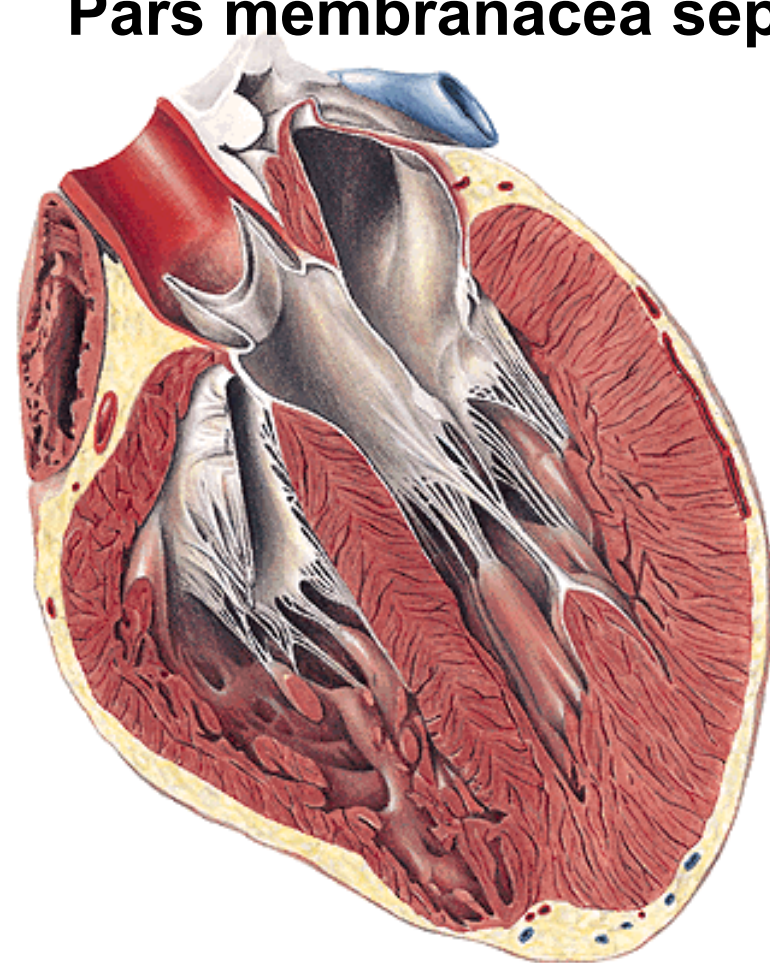
**Endocardium, myocardium, pericardium**

**SKELETON OF THE HEART**

**Anulus fibrosus dexter, sinister, aorticus, trunci pulmonalis**

**Trigonum fibrosum dextrum et sinistrum**

**Pars membranacea septi cordis**



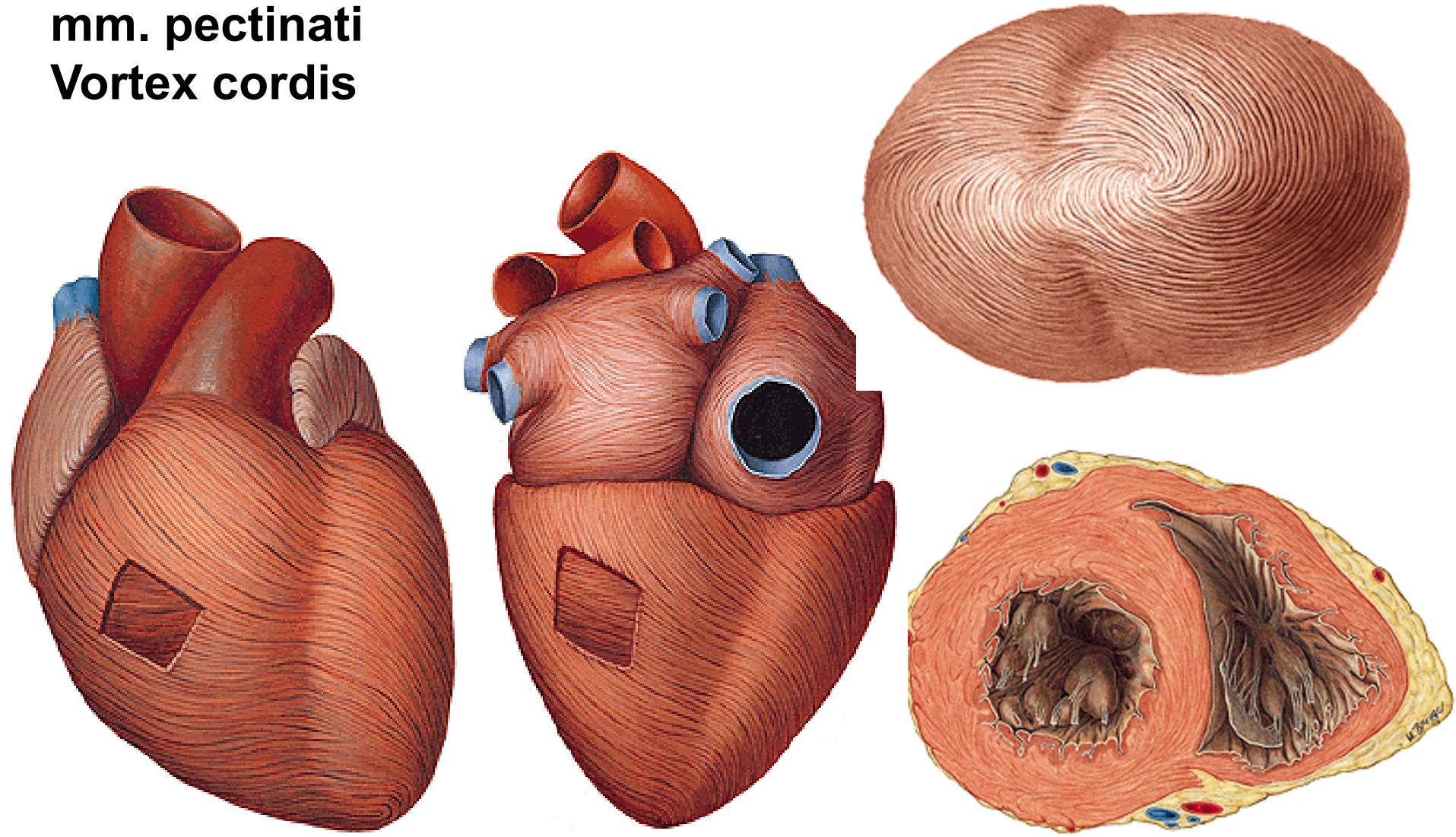
# MYOCARDIUM

**Fasciculus interauricularis horizontalis et verticalis**

**Fasciculus terminalis, intervenosus, limbicus sup. et inf.**

**mm. pectinati**

**Vortex cordis**



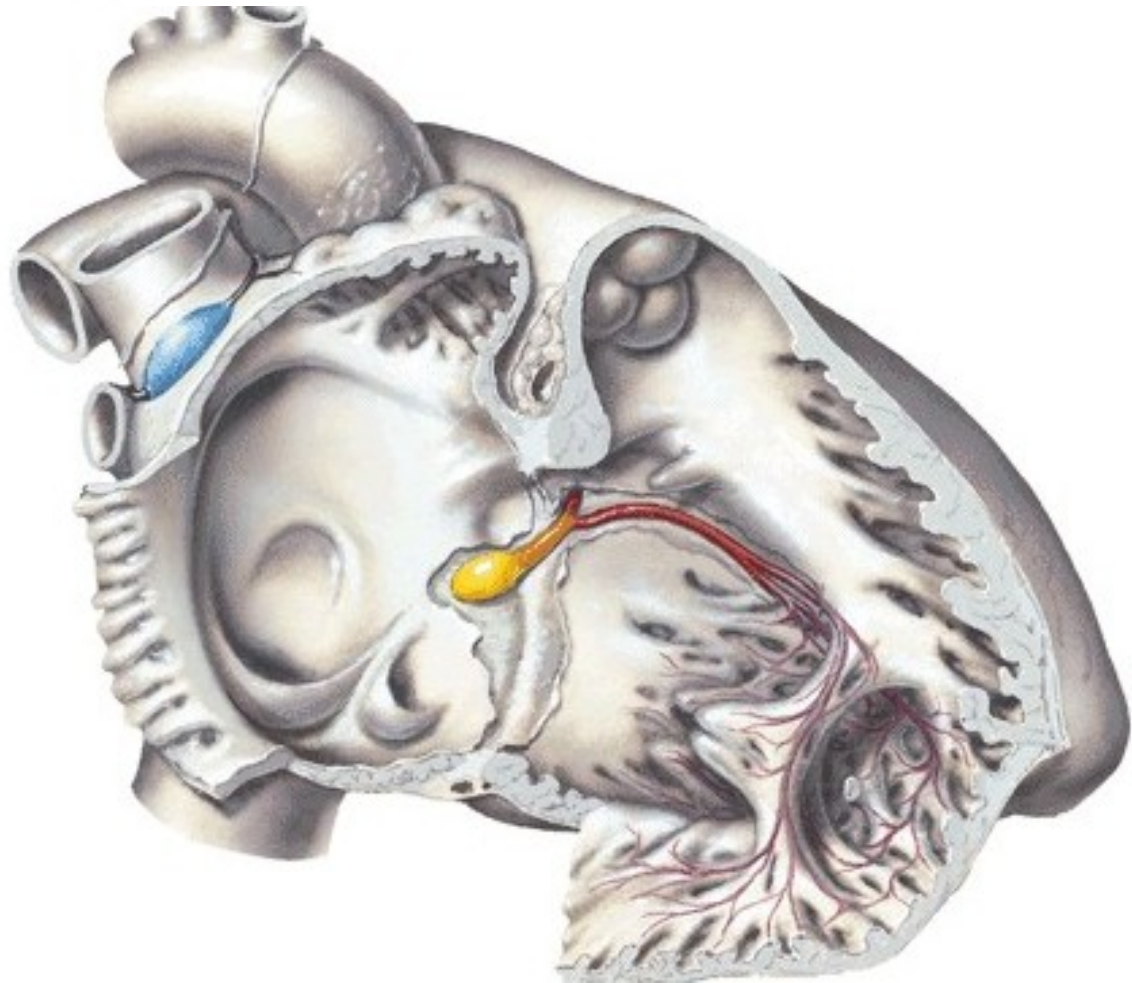
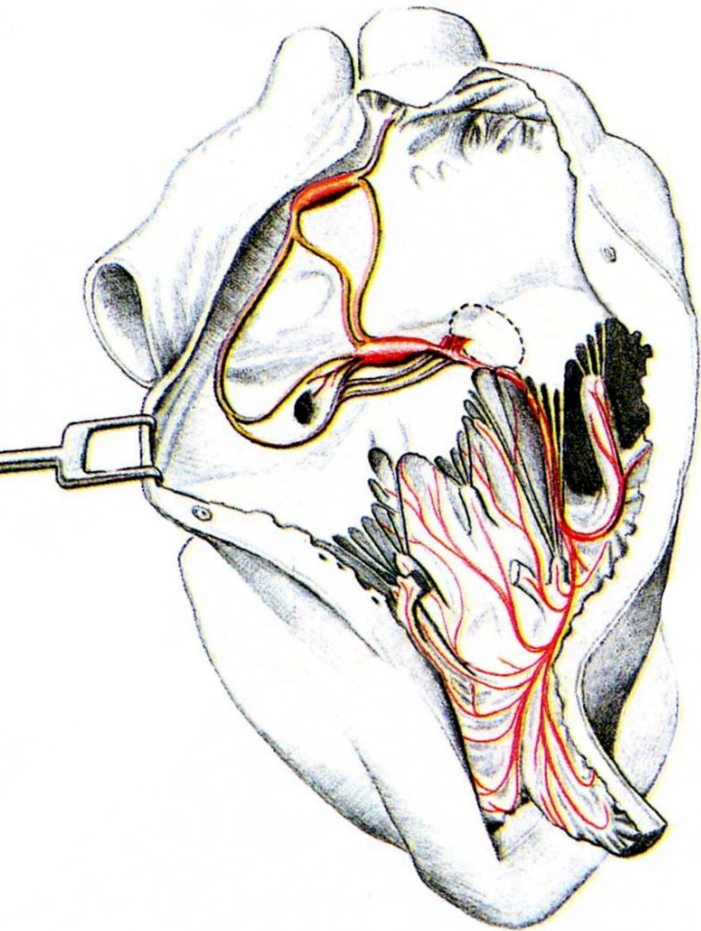
# CONDUCTING SYSTEM

Nodus sinuatrialis

Nodus atrioventricularis

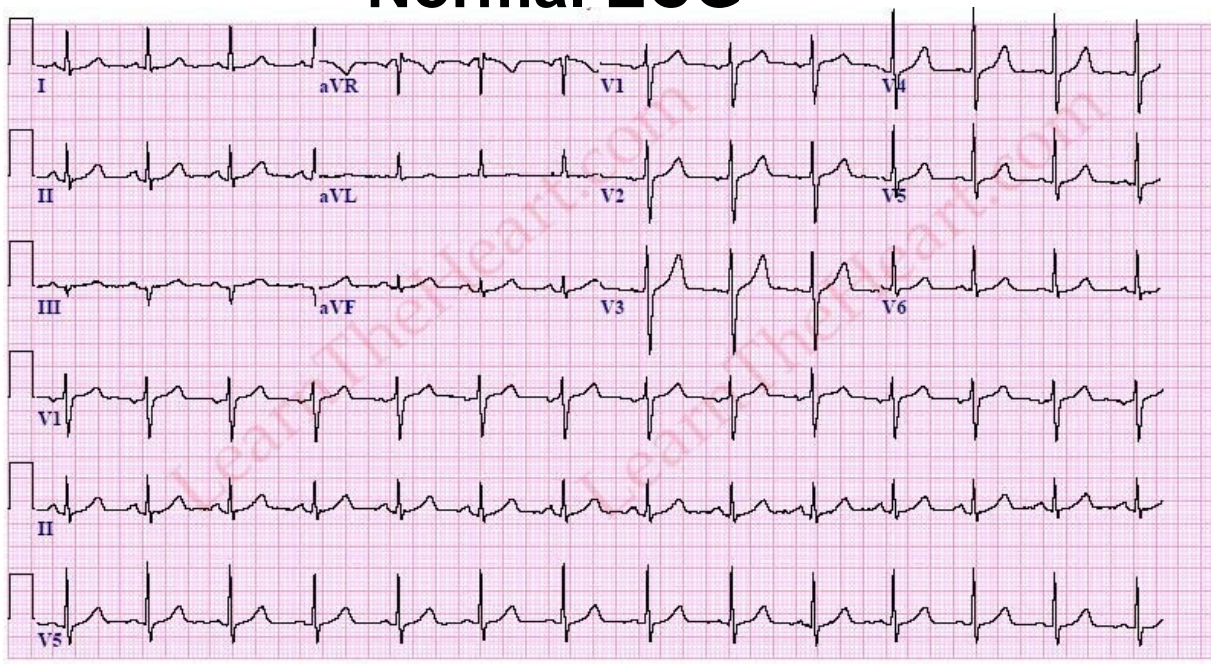
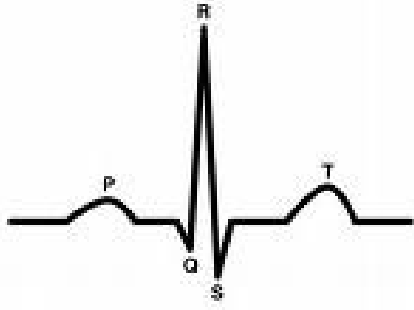
Fasciculus atrioventricularis (His) – crus dextrum et sinistrum

Rami subendocardiales - Purkinje fibers



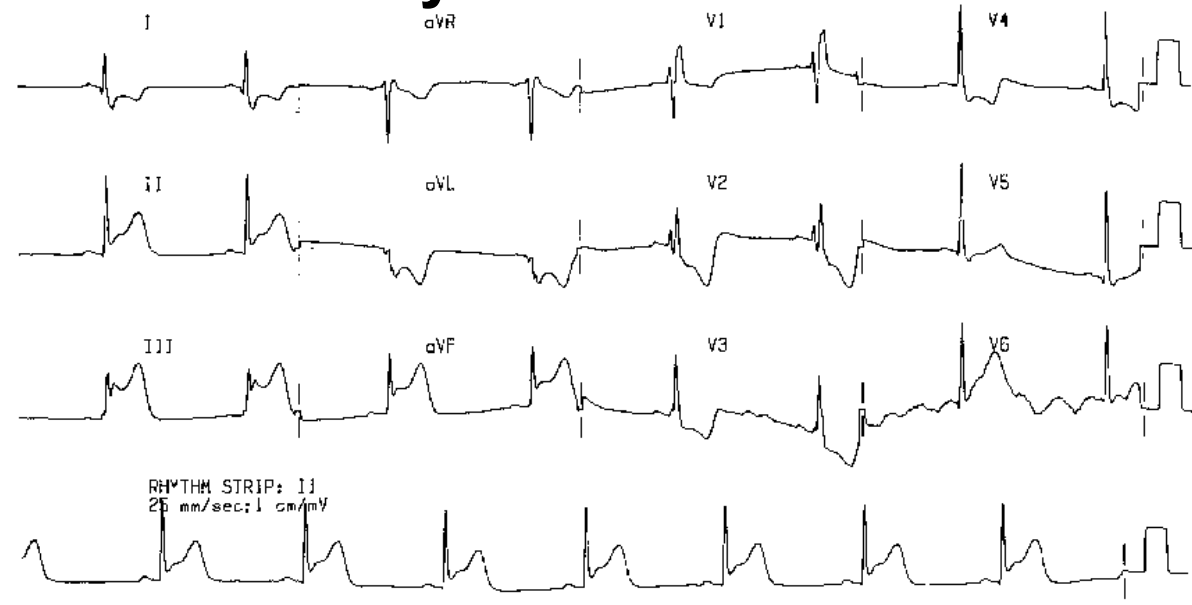
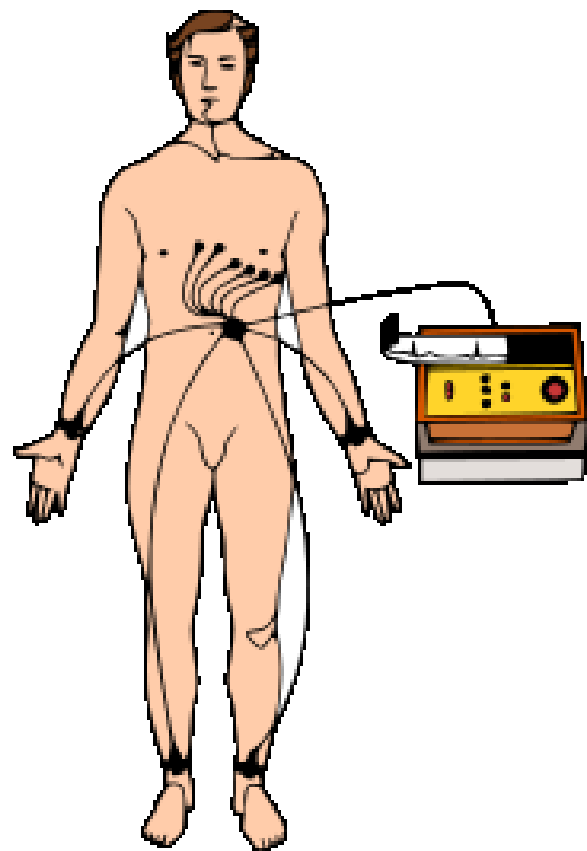
# ECG

# Normal ECG



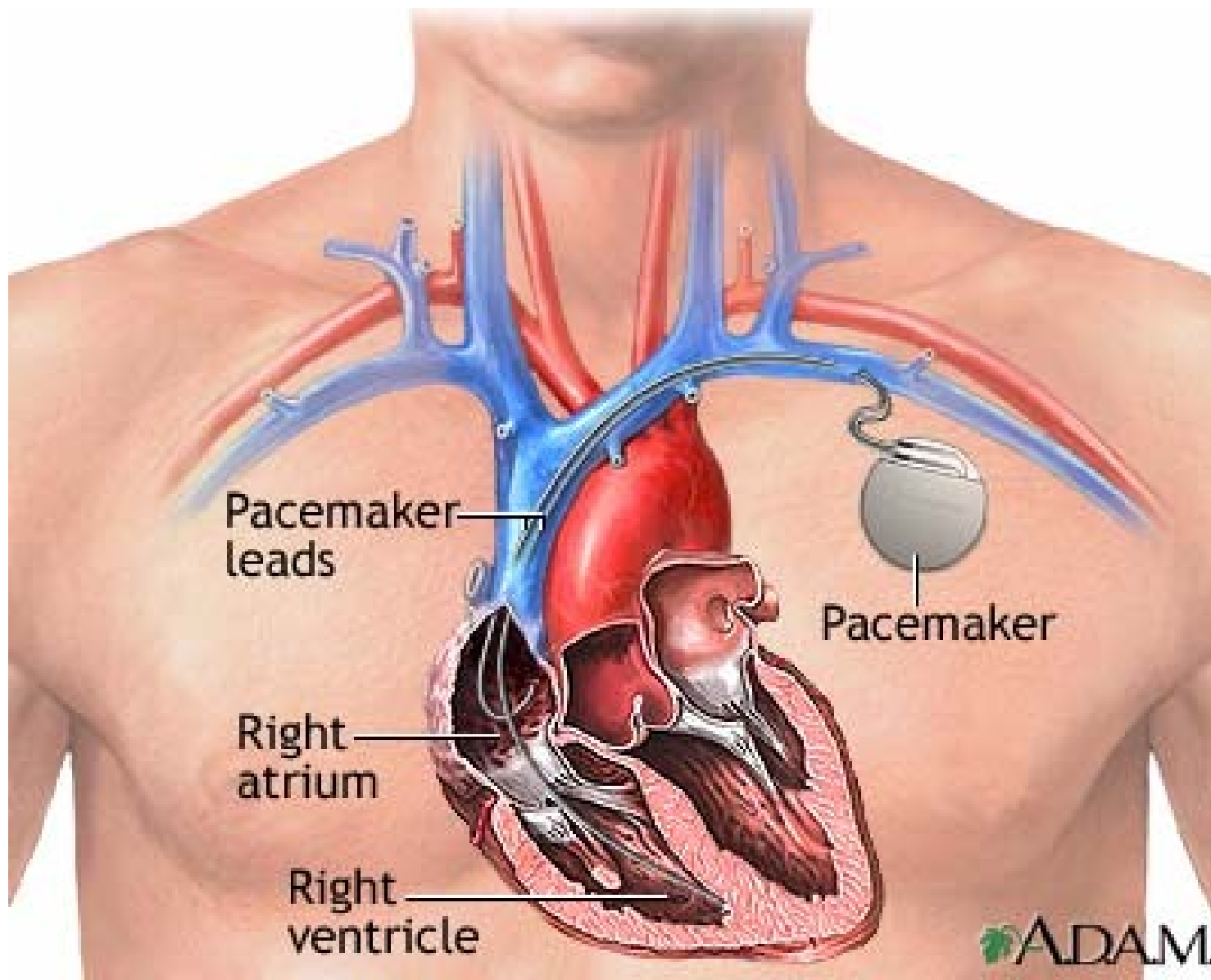
25mm/s 10mm/mV 40Hz 005C 12SL 254 CID: 26 EID:Unconfirmed EDT: ORDER.

# Myocardial infarction





# Artificial pacemaker



# PERICARDIUM FIBROSUM

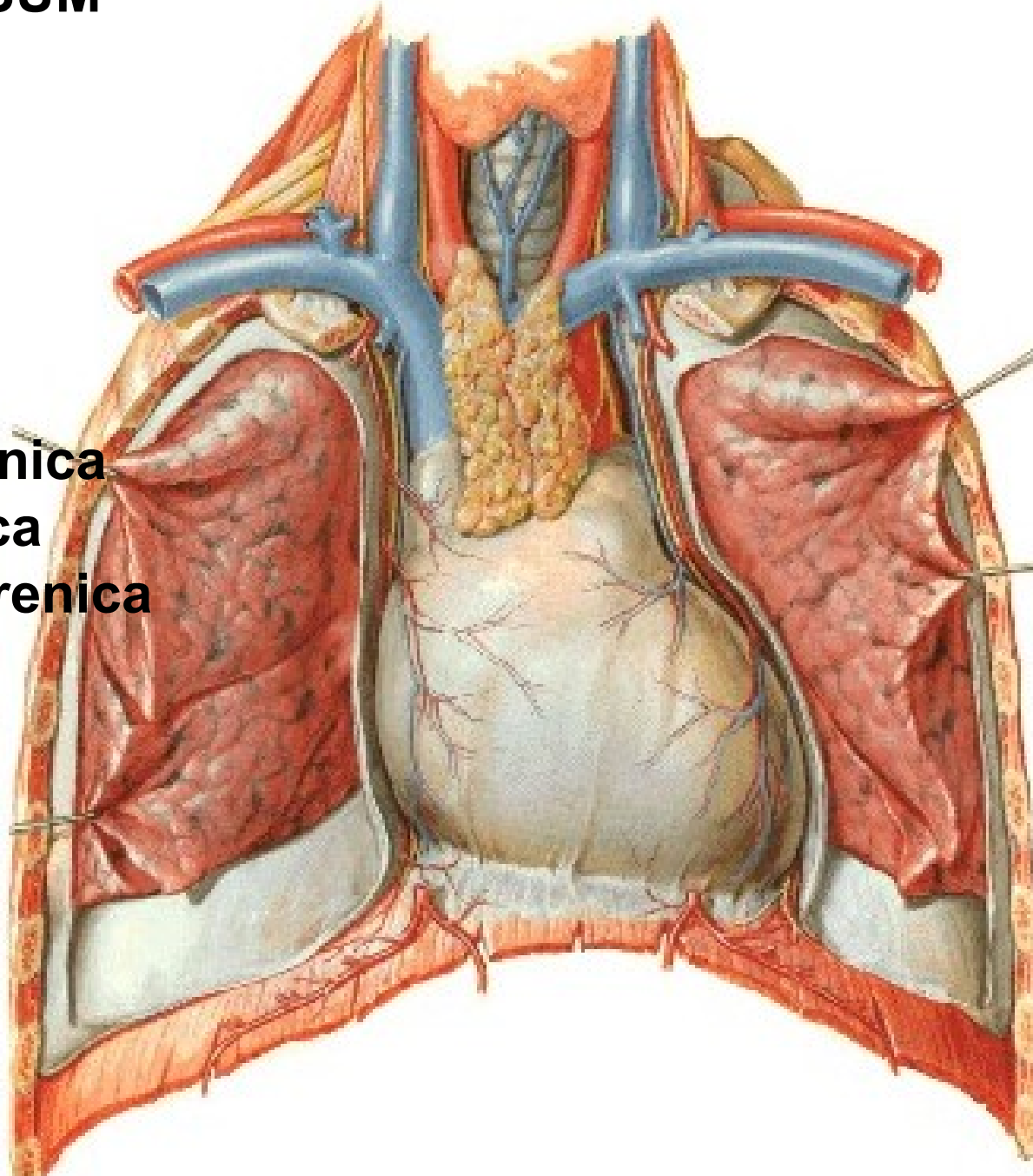
- basis
- cupula
- pars sternalis,
- partes laterales
- pars dorsalis

Ligg. pericardiophrenica

Ligg. sternopericardiaca

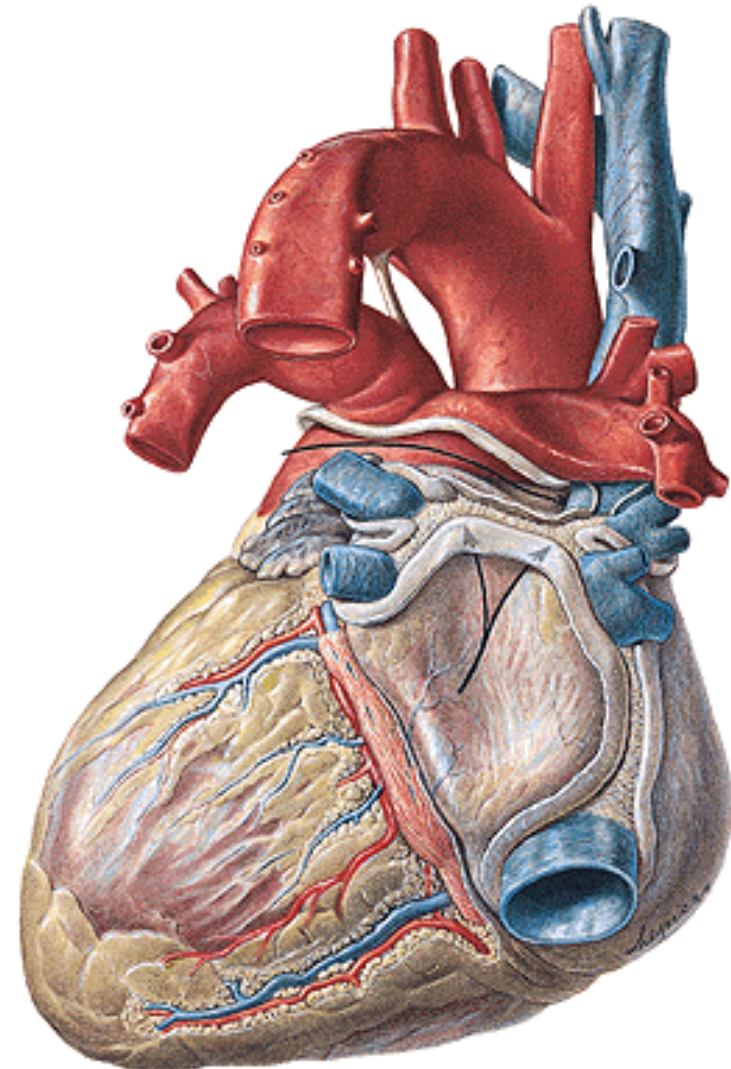
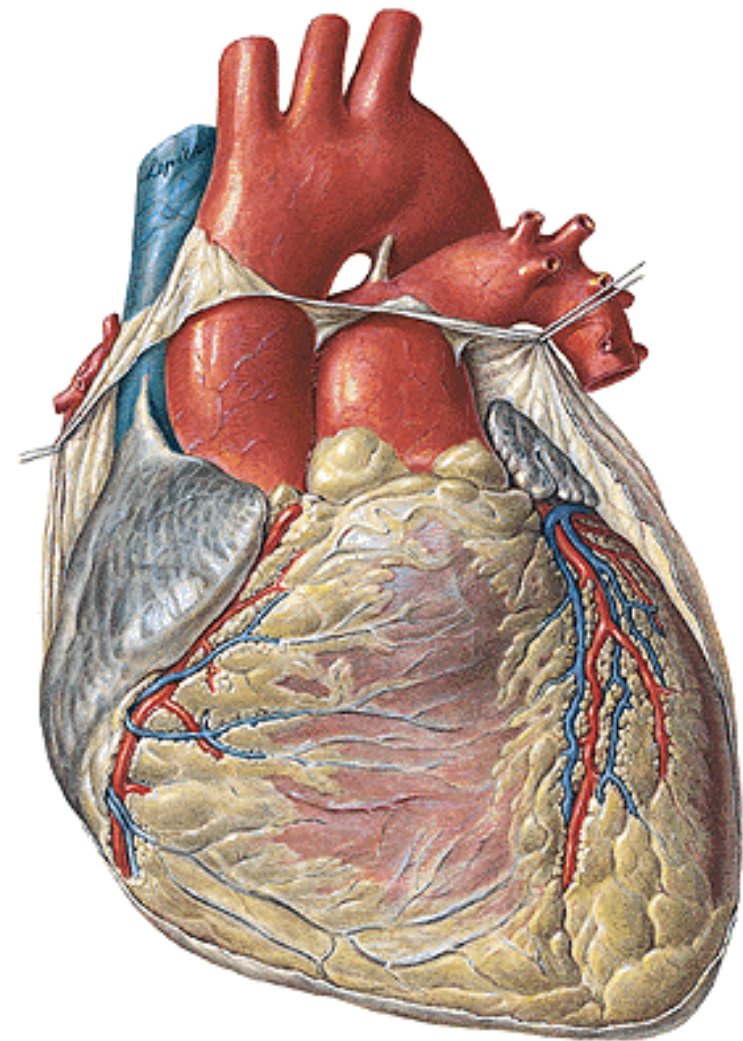
A. et v. pericardiophrenica

N. phrenicus

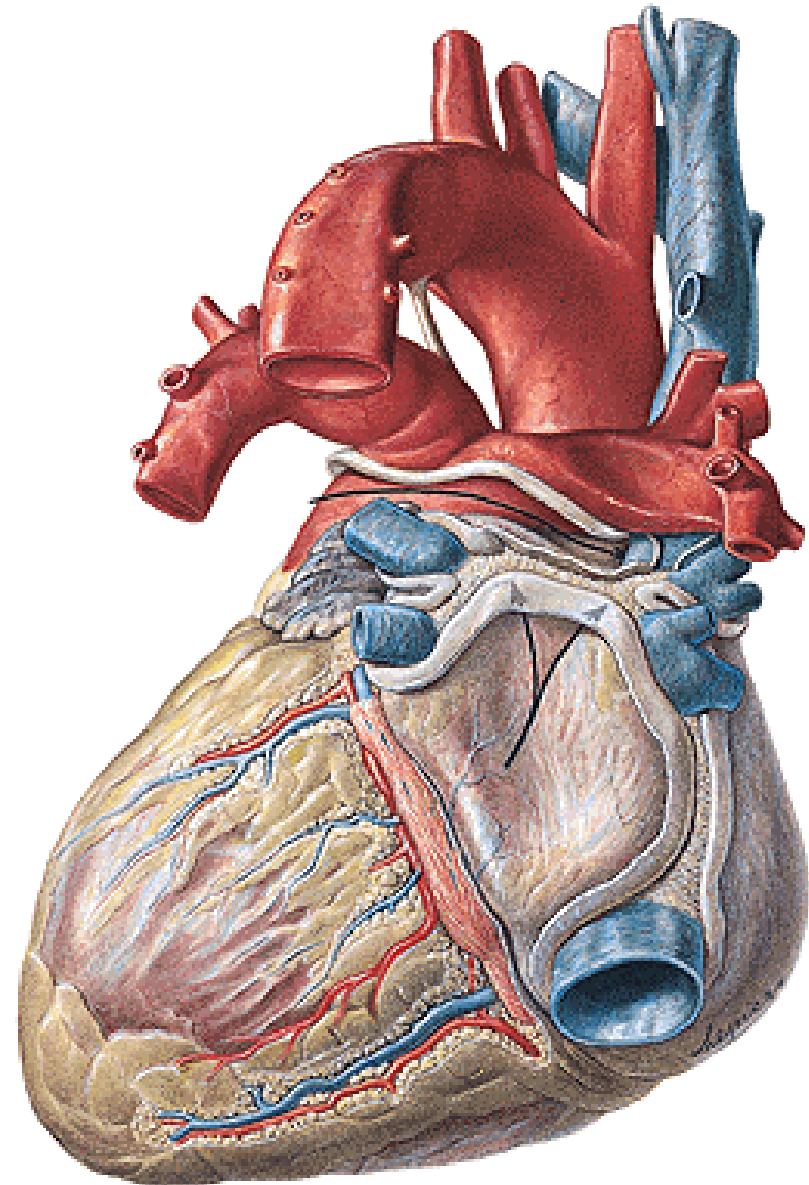
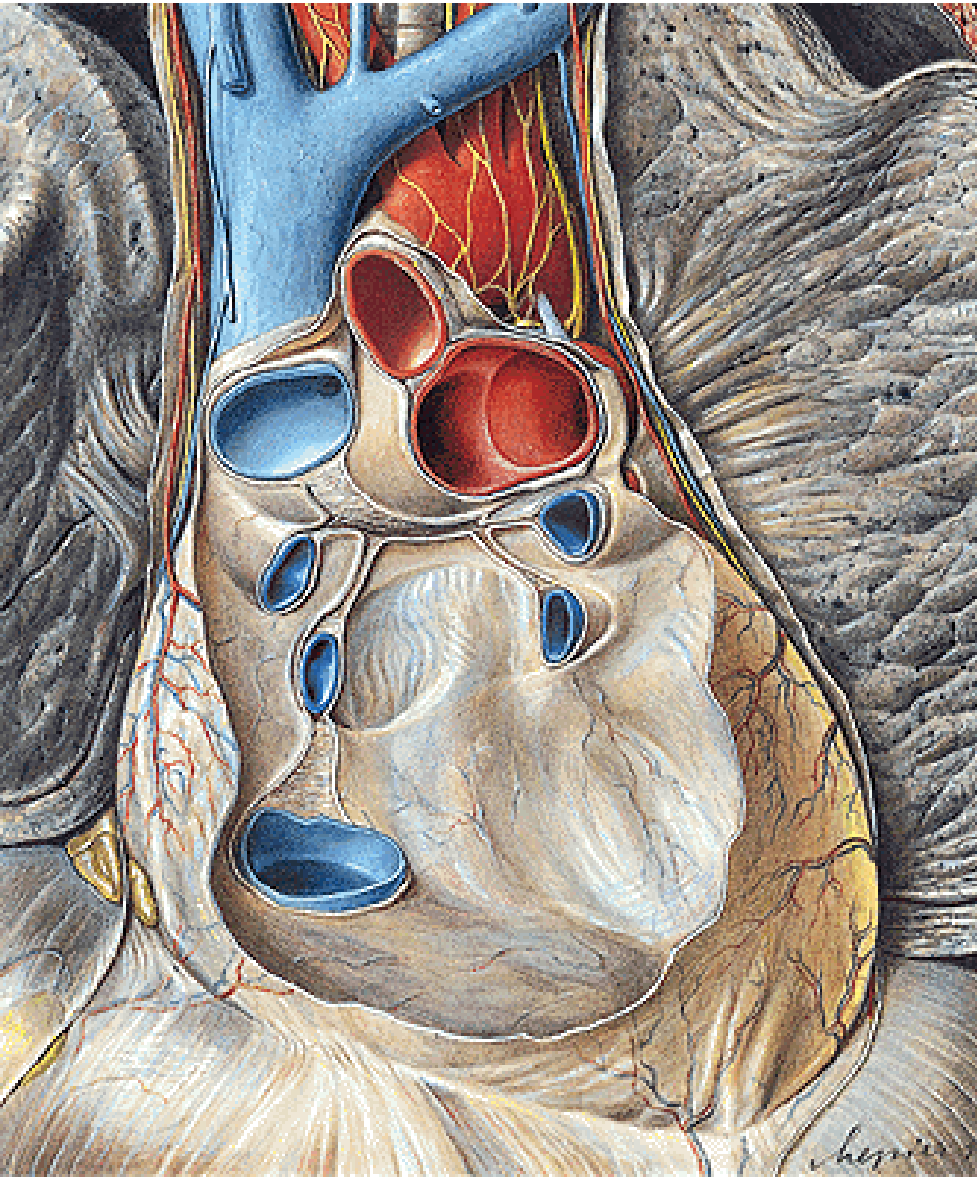


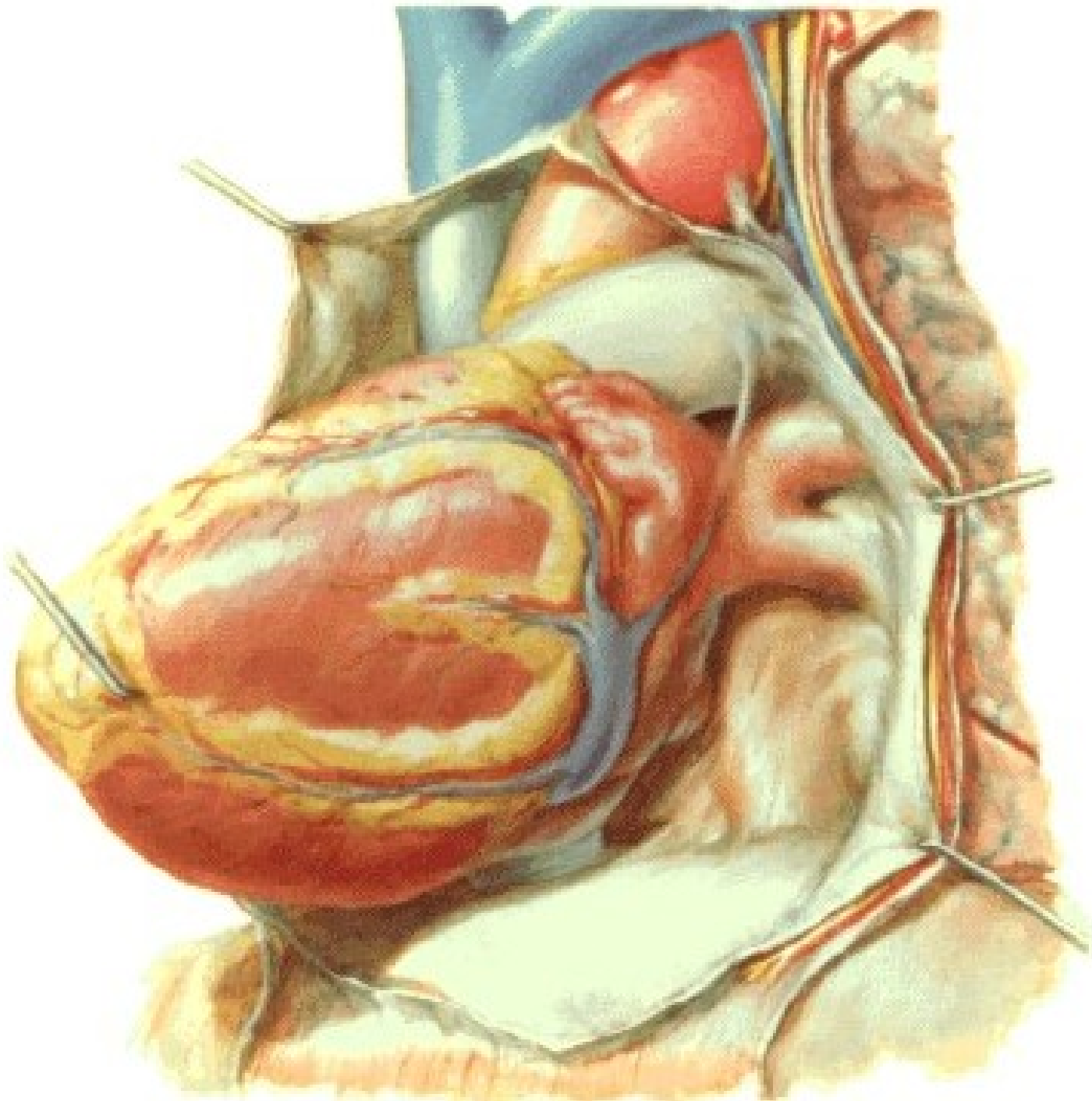
# PERICARDIUM SEROSUM

- lamina parietalis
- lamina visceralis (epicardium)
- cavum pericardii – liquor pericardii



**Vagina serosa arteriarum – sinus transversus pericardii**  
**Porta venarum – sinus obliquus pericardii**





**A. coronaria cordis dx. - rr. atriales dx.**

**- rr. ventriculares dx.**

**- r. marginalis dx.**

**- r. coni arteriosi**

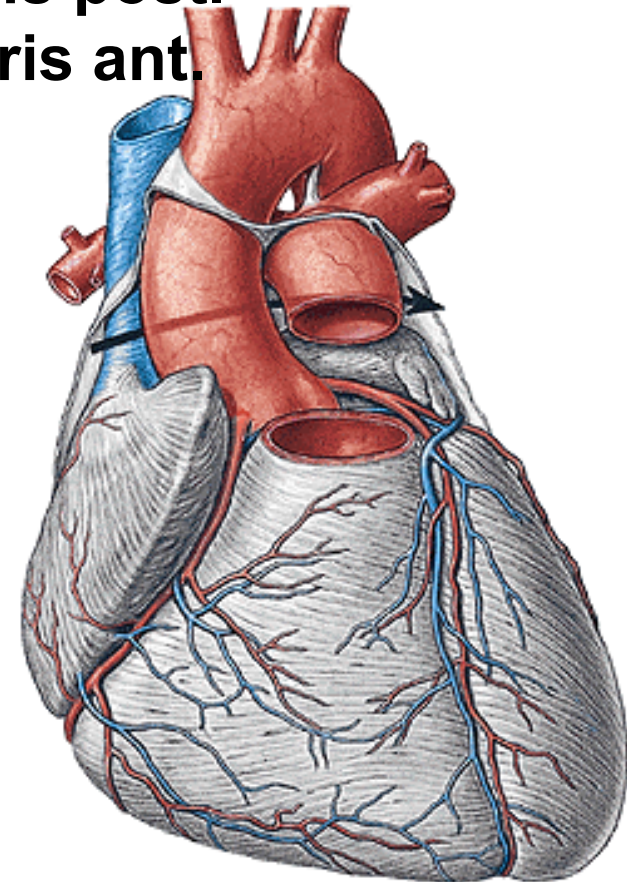
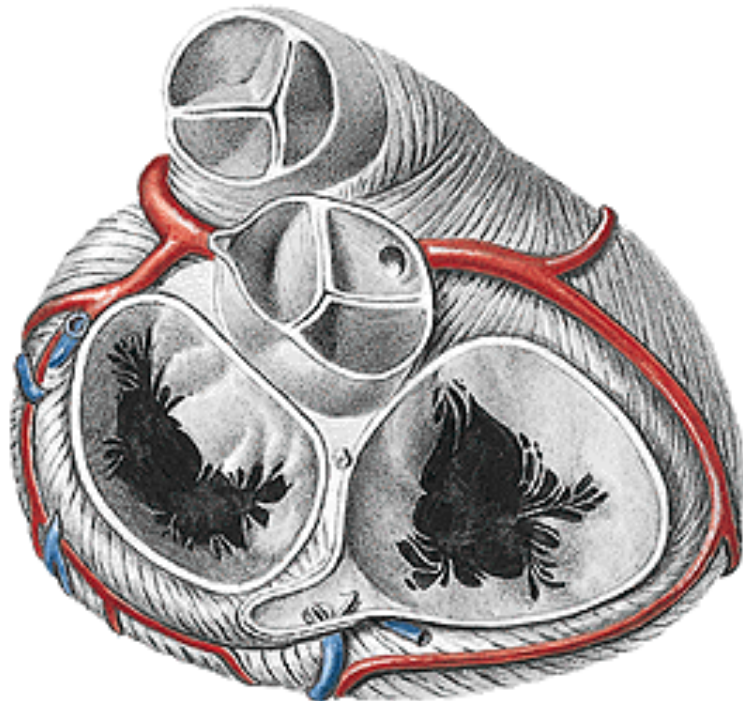
**- r. nodi sinuatrialis**

**- r. nodi atrioventricularis**

**- r. interventricularis post.**

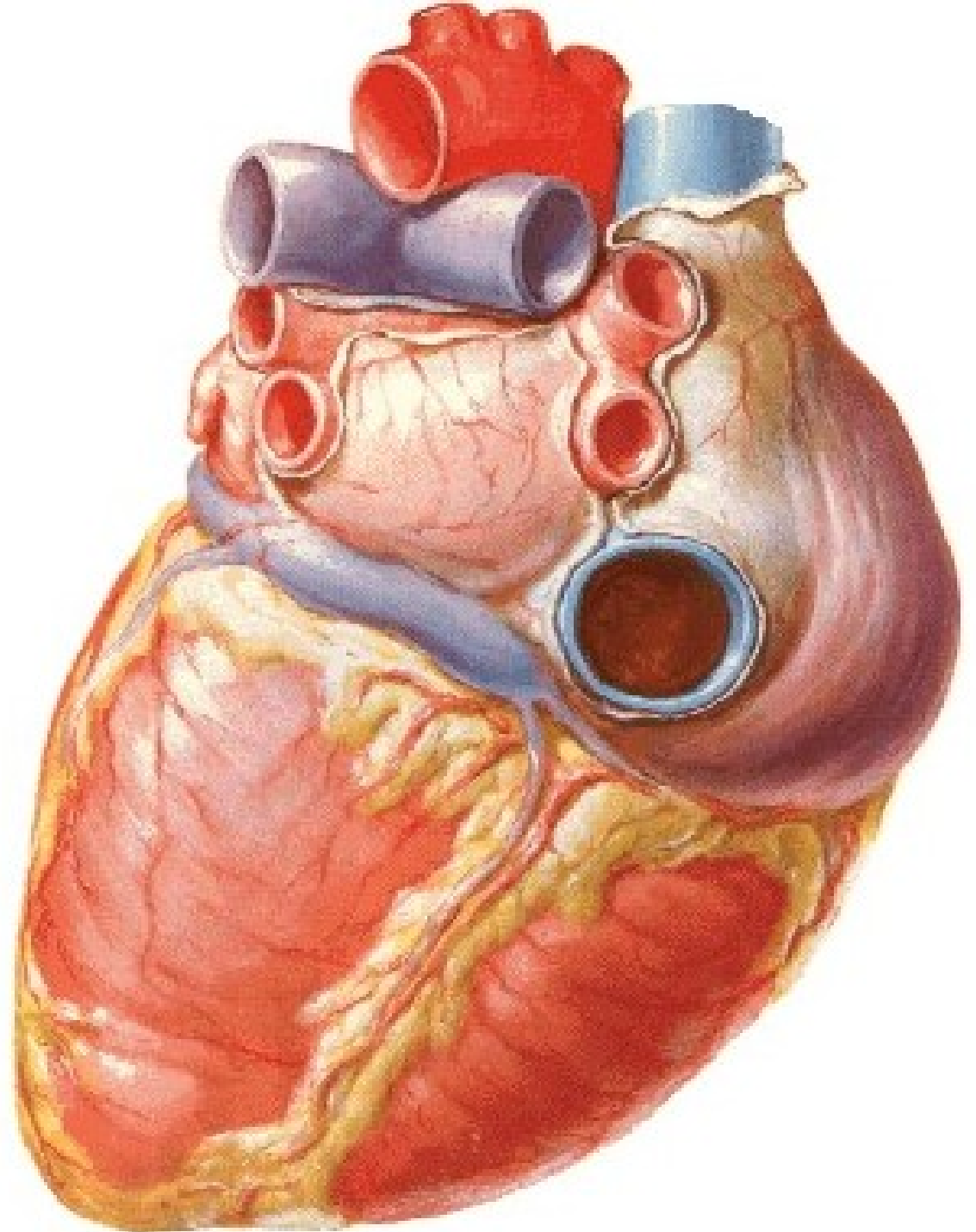
**A. coronaria cordis sin. - r. interventricularis ant.**

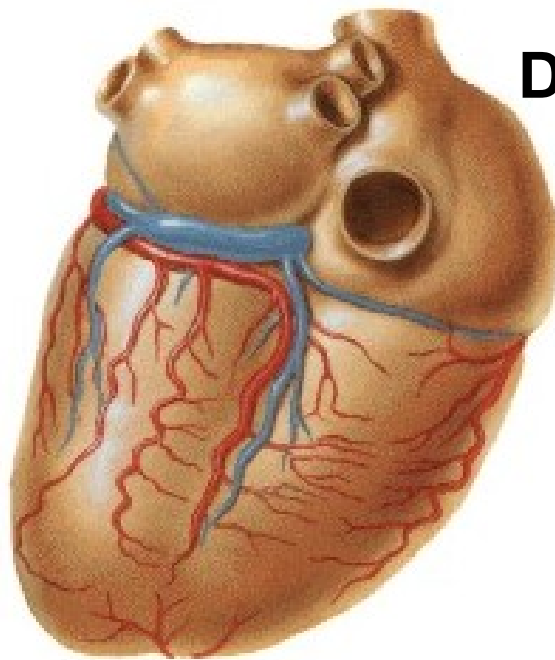
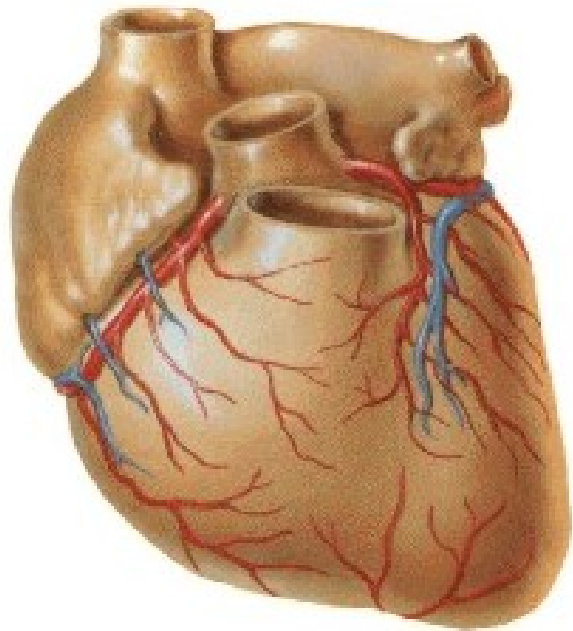
**- r. circumflexus**



## Dominance of RCA

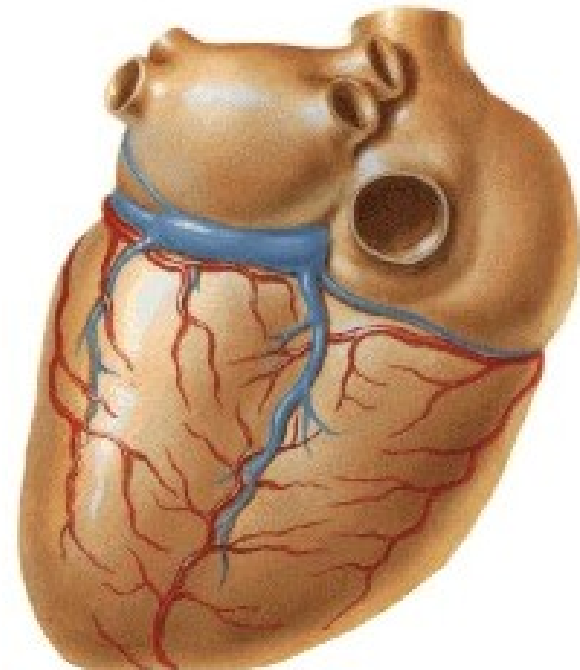
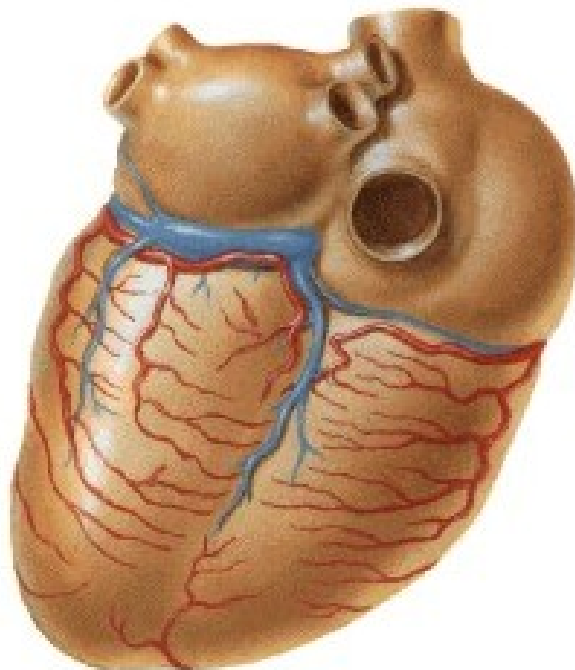
67%





**Dominance of LCA  
15%**

**Codominance  
18%**





# Venae cordis

## 1. Sinus coronarius cordis

a) v. cordis magna

b) v. cordis media

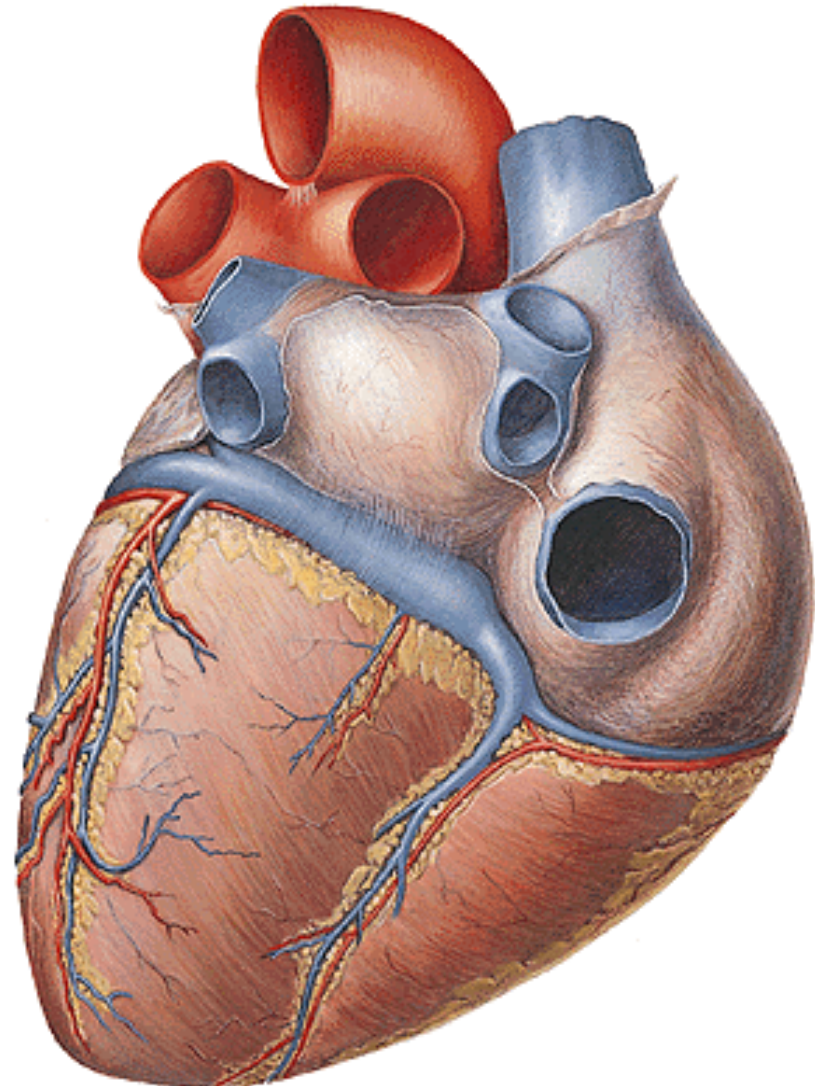
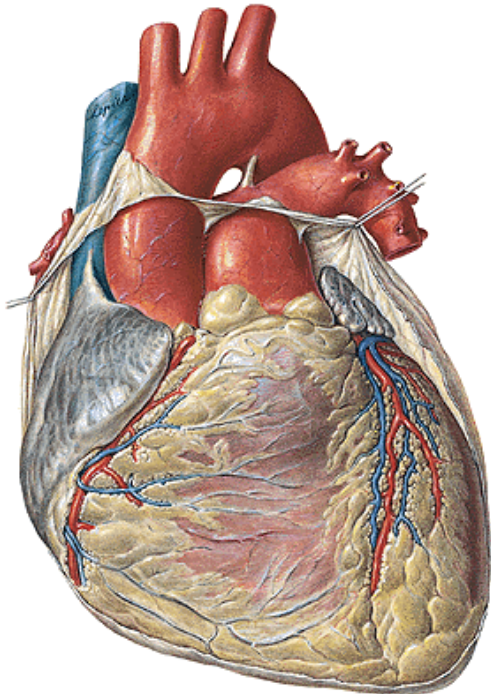
c) v. cordis parva

d) v. obliqua atrii sinistri

e) v. posterior ventriculi sinistri

## 2. Vv. cordis anteriores

## 3. Vv. cordis minimae



## **Lymphatics:**

**Truncus lymphaticus anterior sinister –  
truncus lymph. post. –  
nodus lymph. retroaorticus  
Truncus lymph. ant. dx. –  
nodus lymph. praeaorticus**

## **Nerves:**

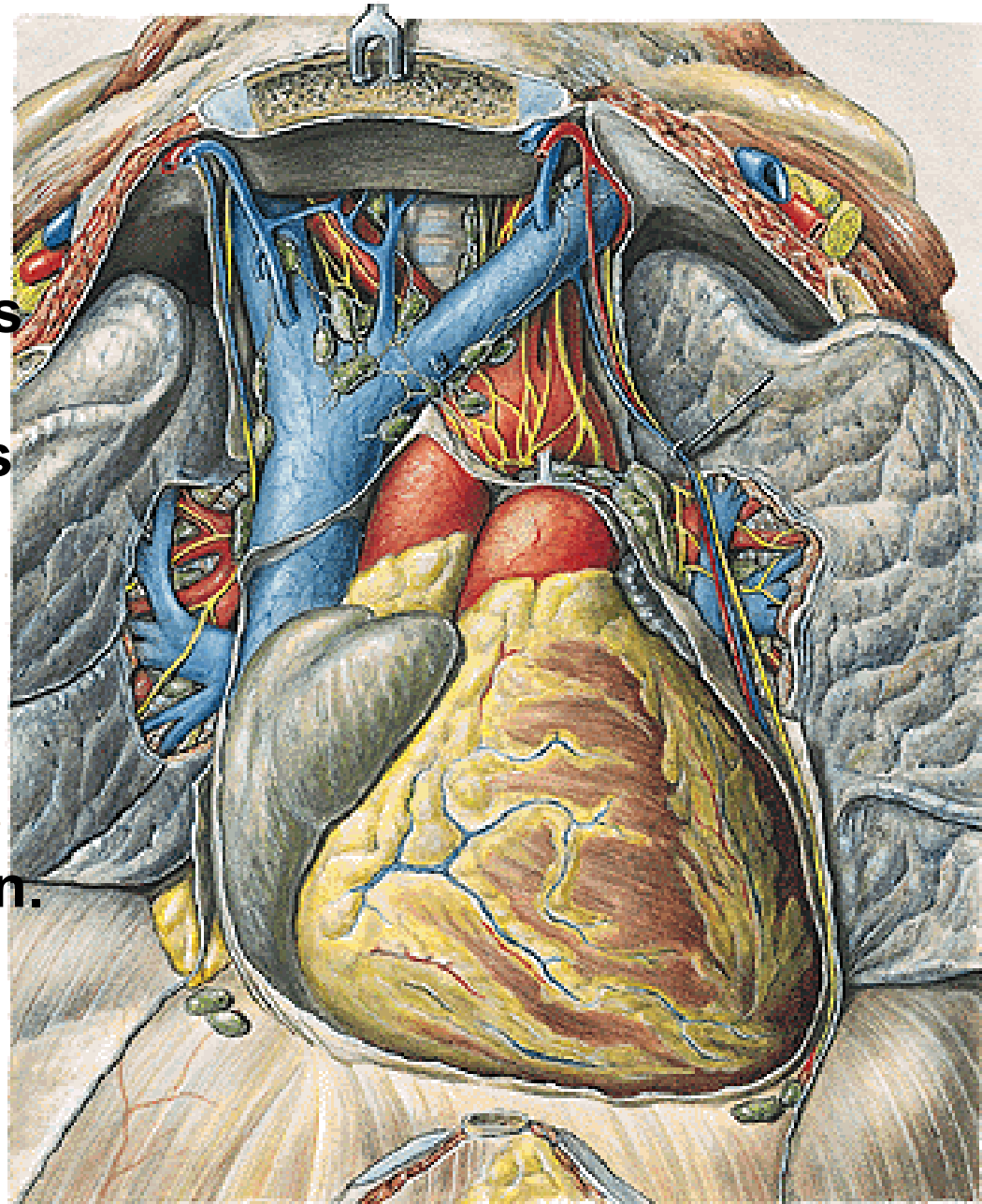
**Plexus cardiacus spf.  
(ganglion cardiacum)  
Plexus cardiacus prof.  
Plexus coronarius dx. et sin.**

**Nn. cardiaci (symp.)**

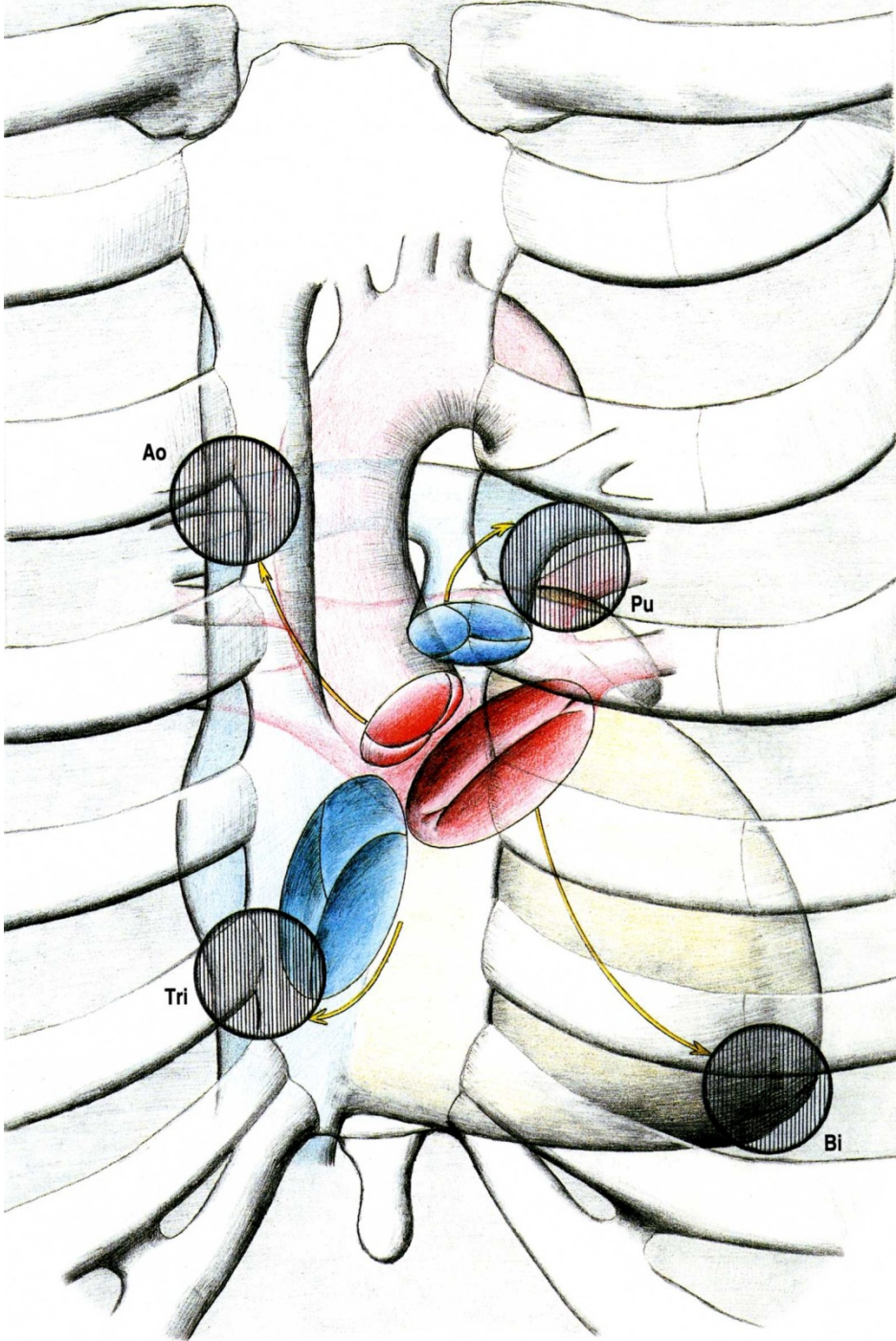
**– accelerantes**

**Rr. cardiaci (parasymp.)**

**– retardantes**



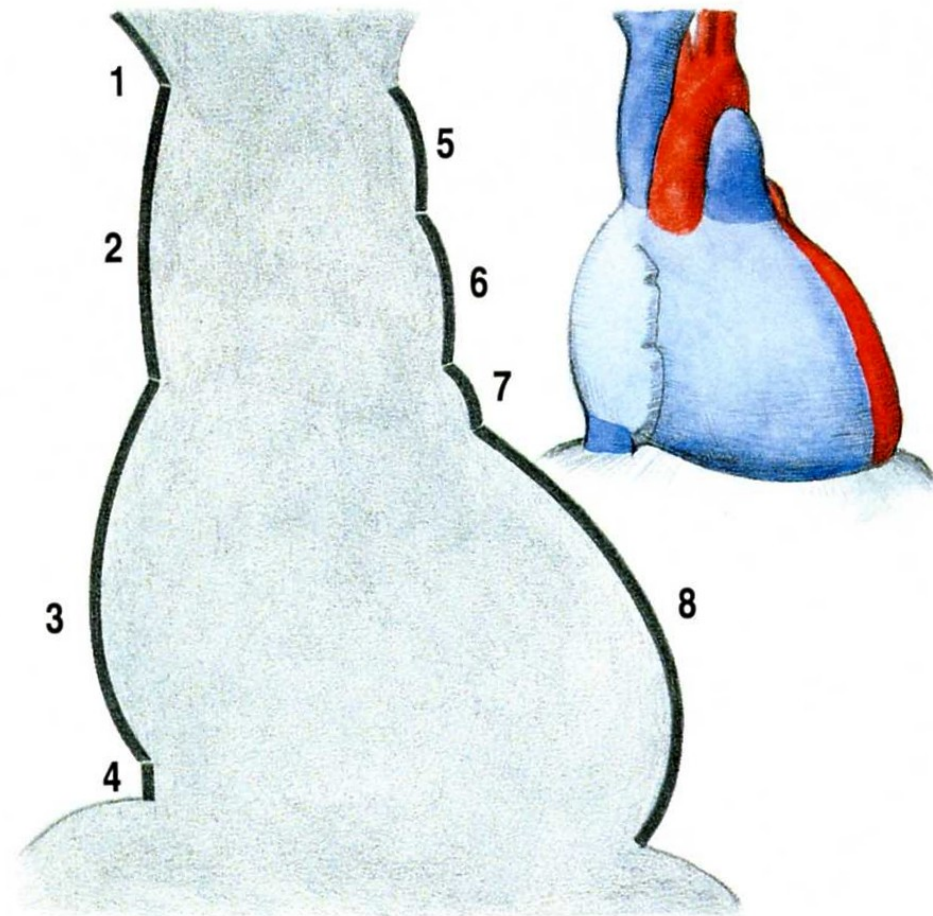
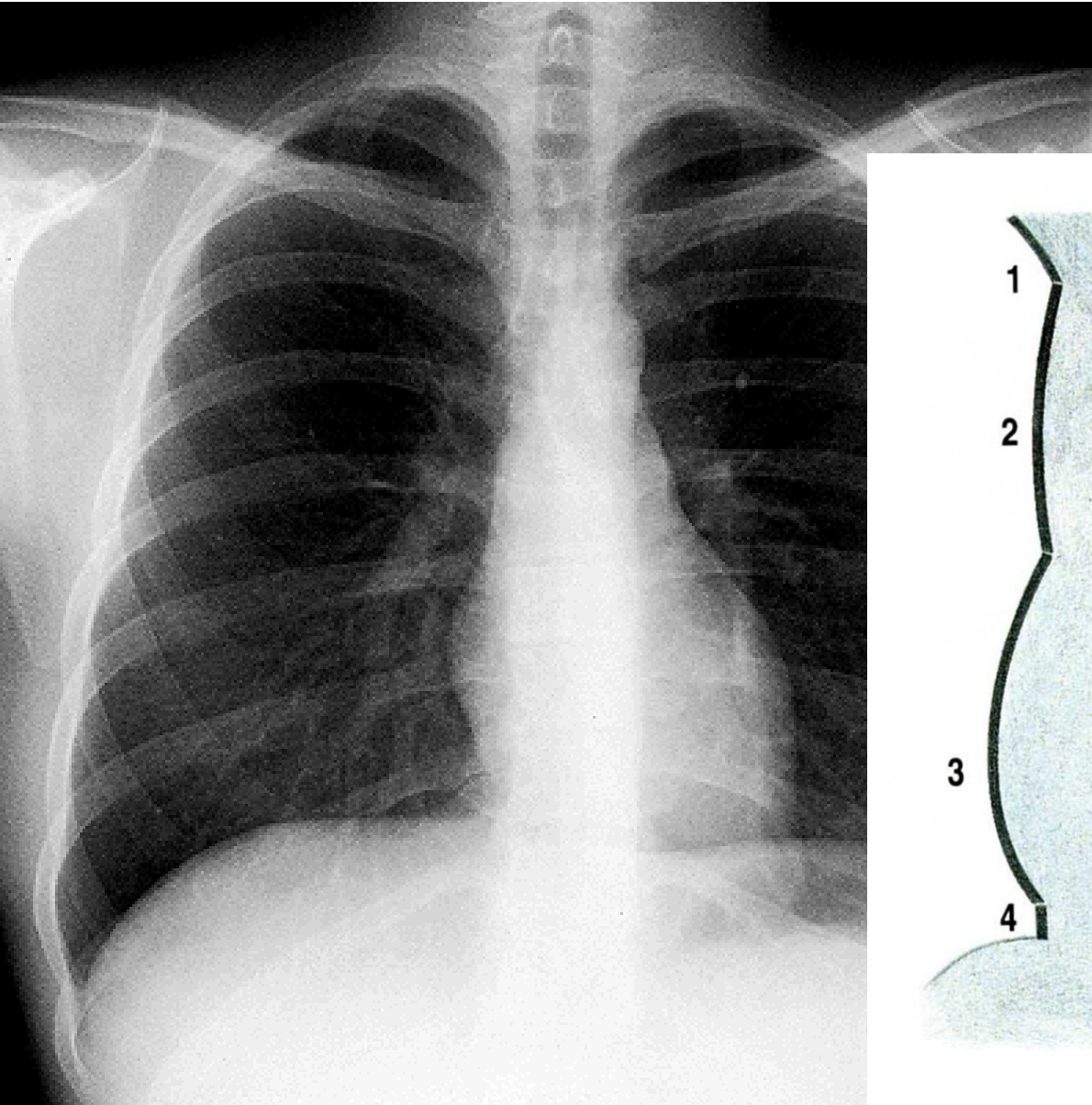
# Sites of auscultation:

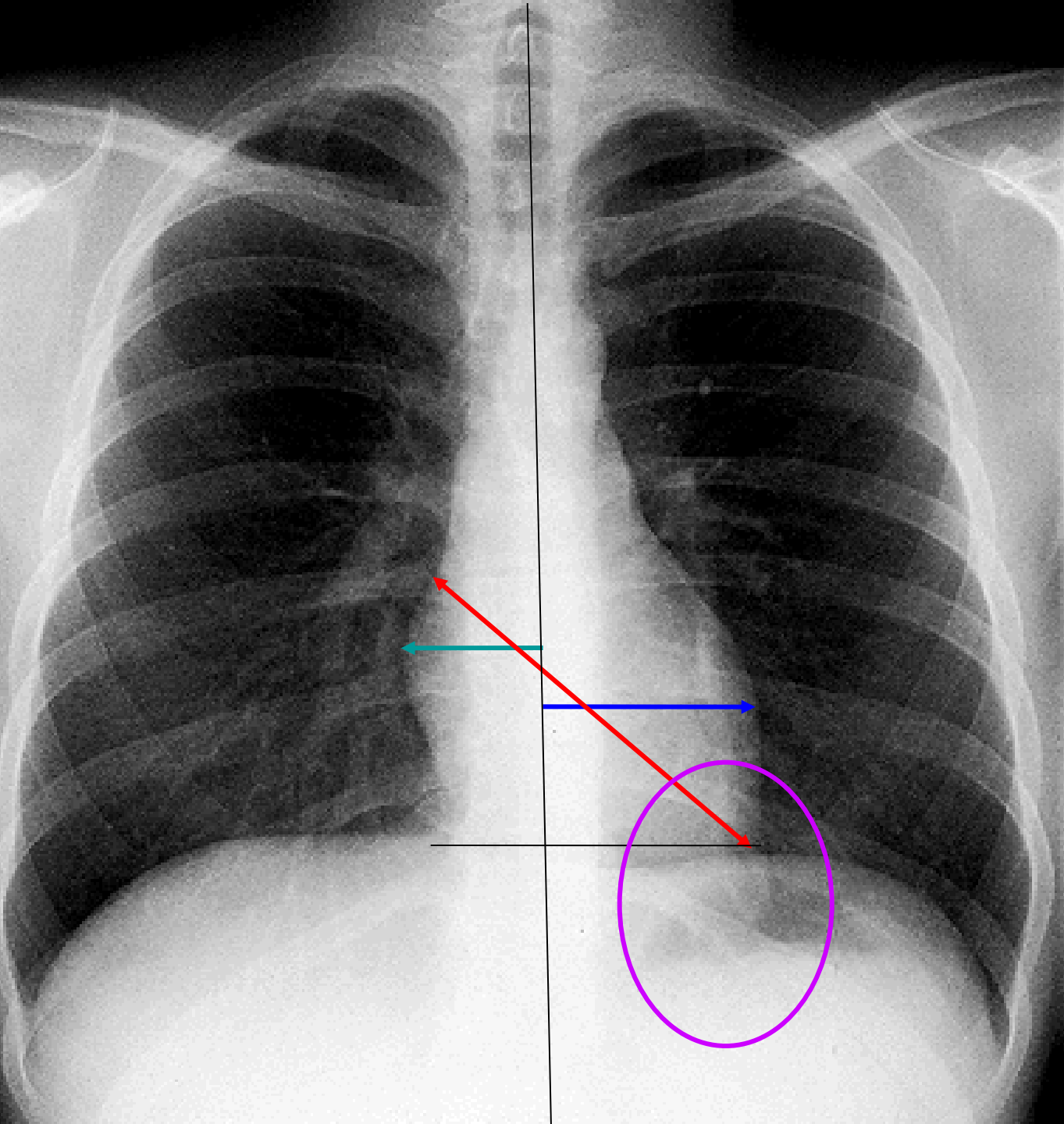


# Heart shadow:

1. V. brachiocephalica dx.
2. V. cava sup.
3. Atrium dx.
4. V. cava inf.

5. Arcus aortae
6. Truncus pulmonalis
7. Auricula sin.
8. Ventriculus sin.





**Distantia  
mediodextra**

**Distantia  
mediosinistra**

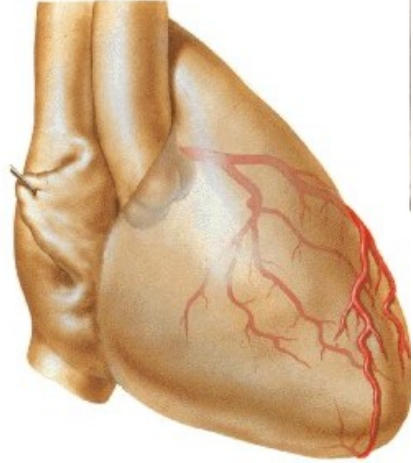
**Transverse  
line = DMd+DMs**

**Length**

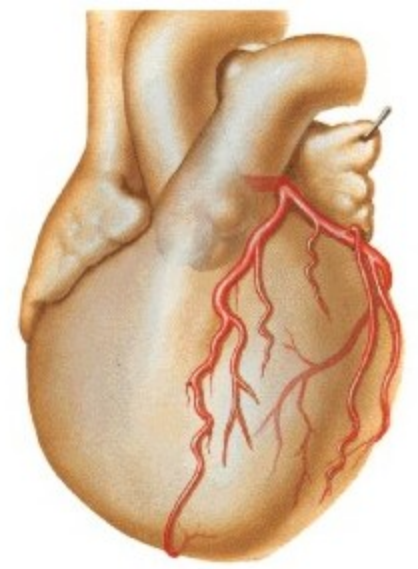
**Gradient**

**Area**

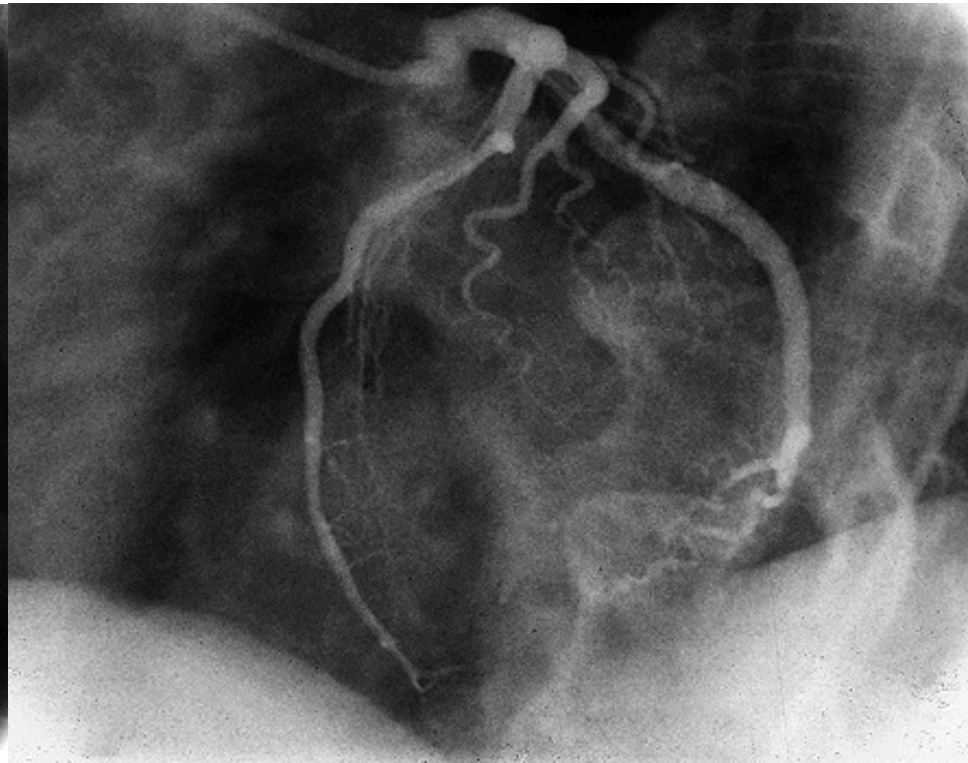
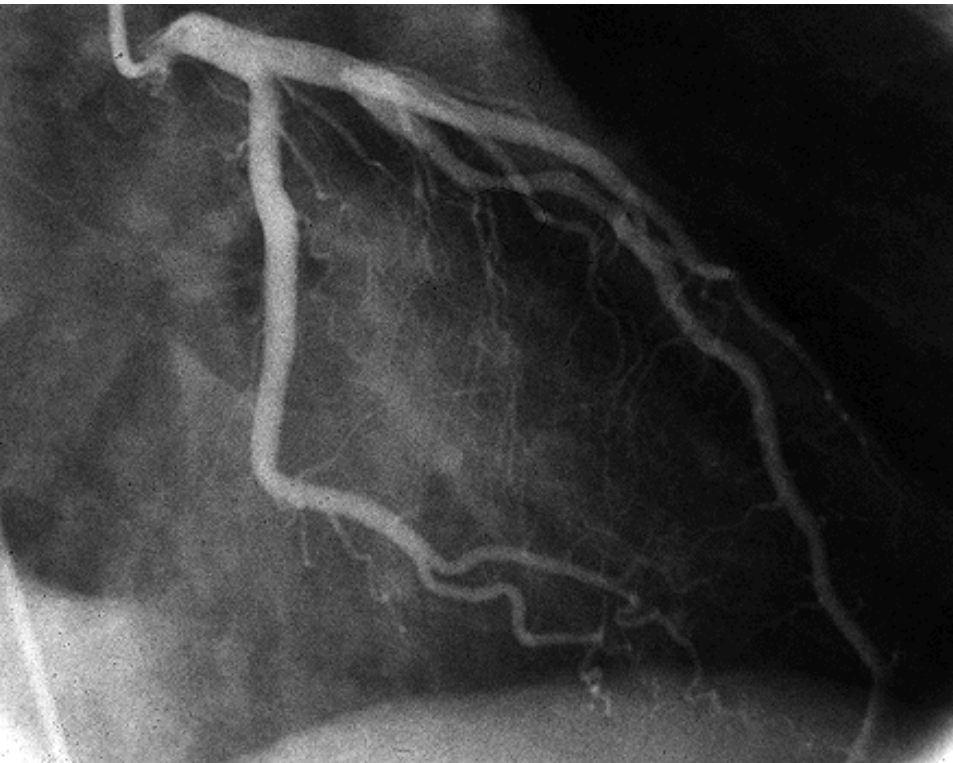
# Coronary angiography – left coronary artery



Right anterior oblique projection

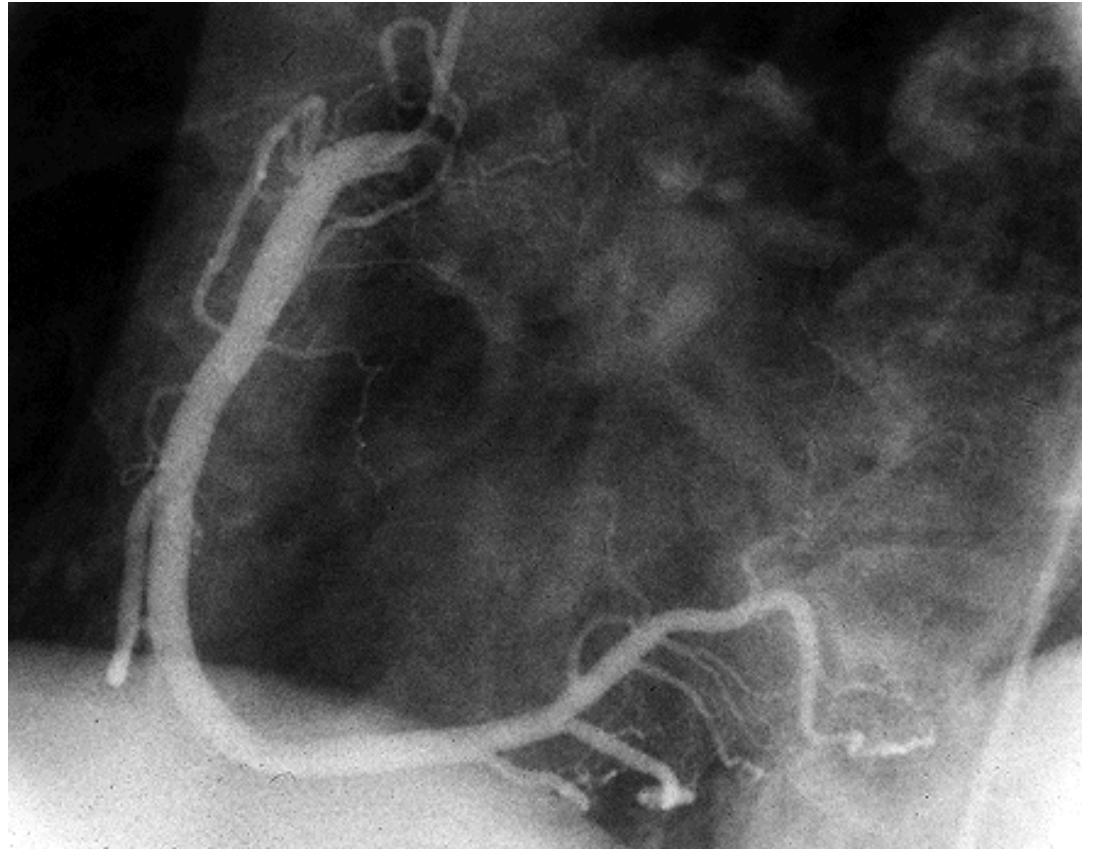
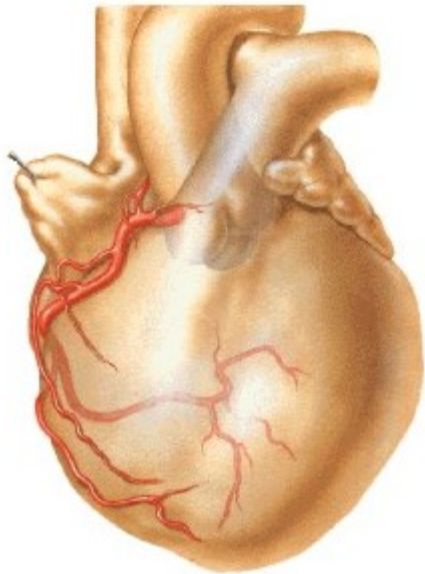


Left anterior oblique projection



# Coronary angiography – right coronary artery

Left anterior oblique projection



Illustrations were copied from:

**Atlas der Anatomie des Menschen/Sobotta.  
Putz,R., und Pabst,R. 20. Auflage. München:  
Urban & Schwarzenberg, 1993**

**Netter: Interactive Atlas of Human Anatomy.  
Windows Version 2.0**

**Čihák R: Anatomie 2 (Splanchnologia). Avicenum,  
zdravotnické nakladatelství, Praha, 1988.**