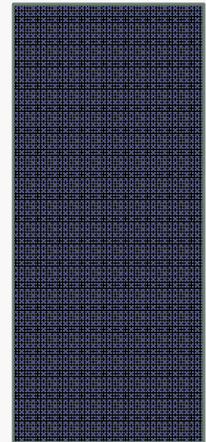
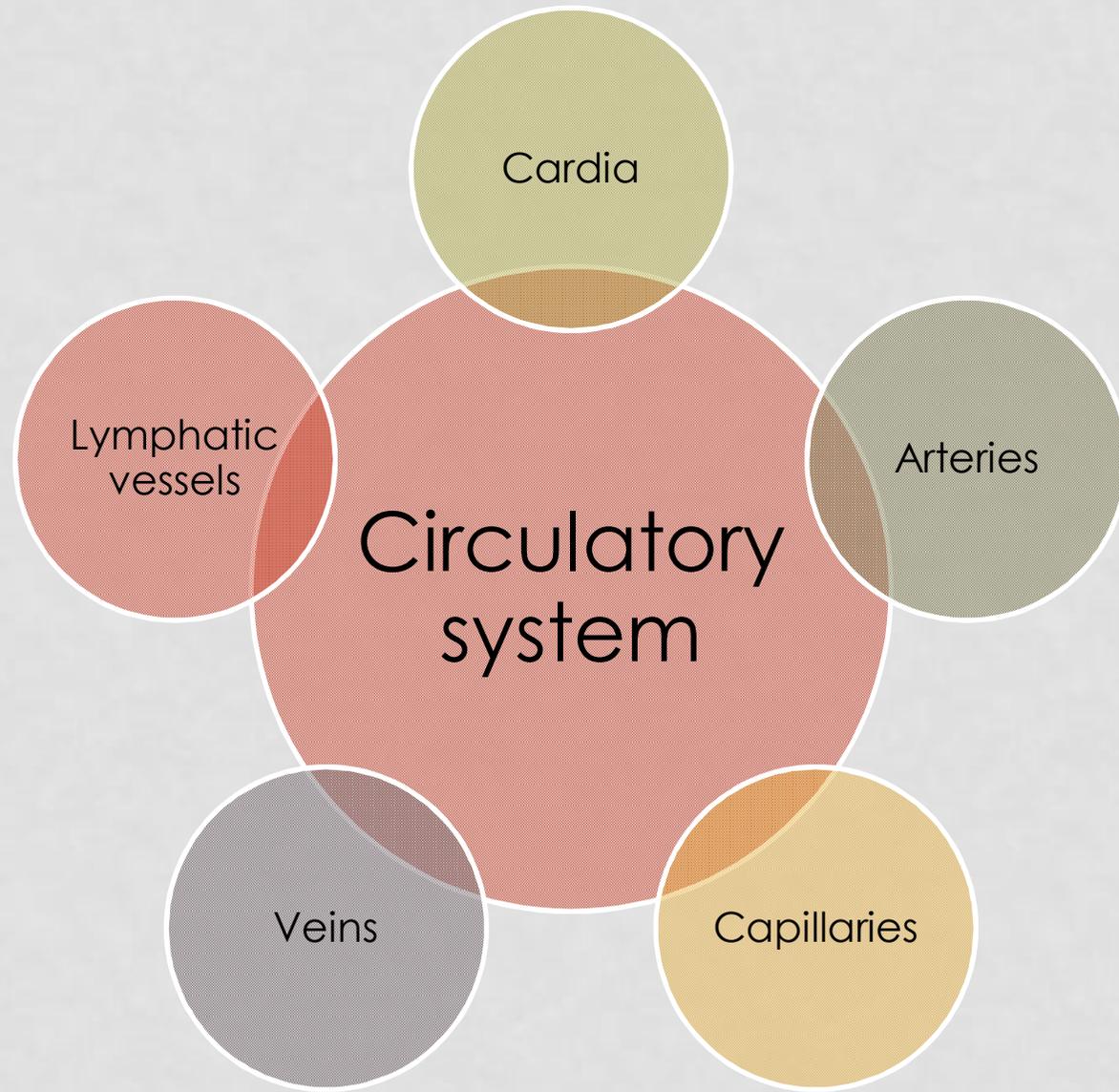


CIRCULATORY SYSTEM

**FOR PARA MEDICINE STUDENT
DR. SAEEDNIA**





Mediastinum

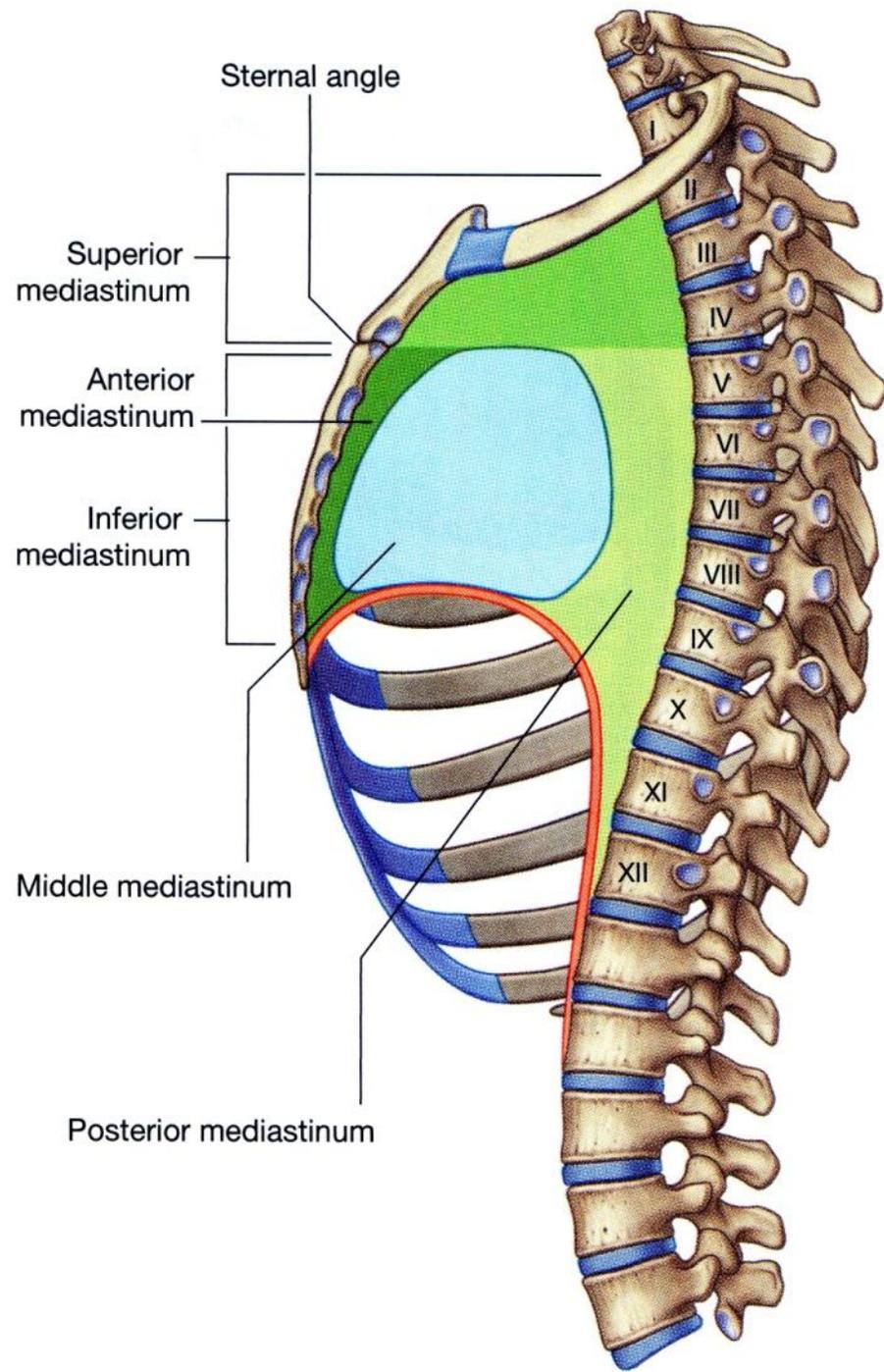
inferior

Superior

anterior

Middle

posterior



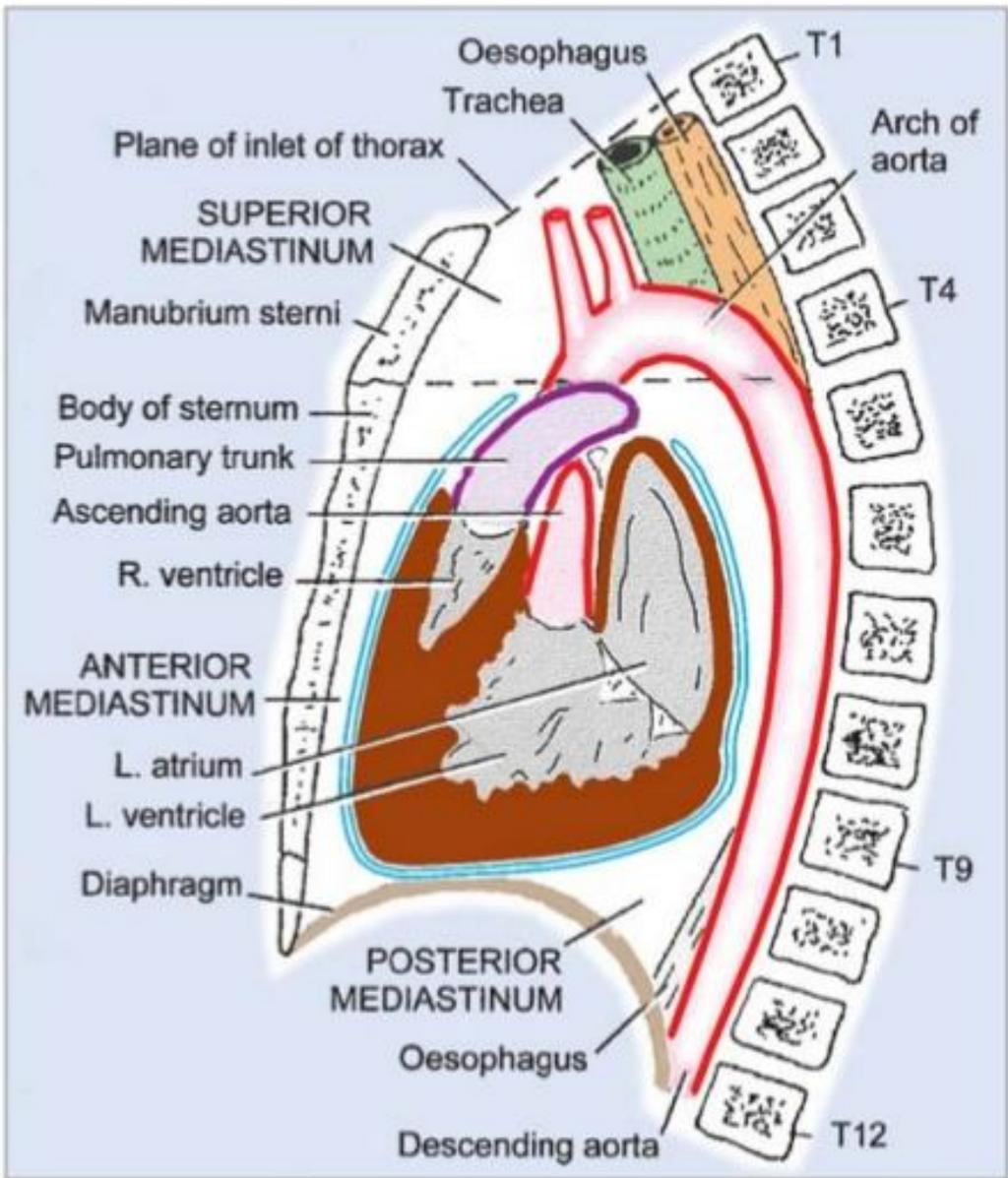


Fig. 18.5. Schematic sagittal section through the thorax to show the subdivisions of the mediastinum

Cardiac surfaces

Sternocostal

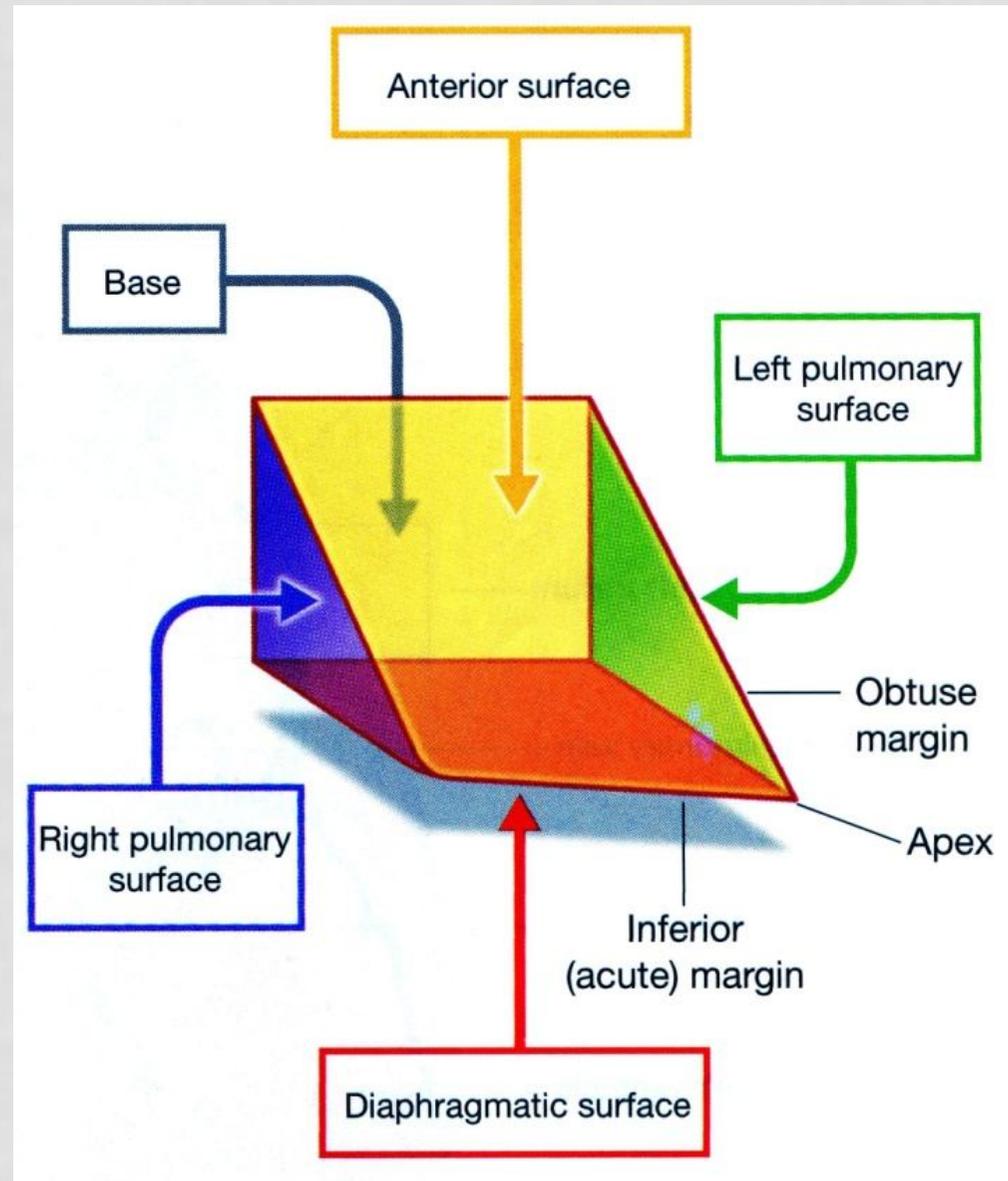
Diaphragmatic

Left pulmonary

Right pulmonary

Base=in supine position T5-T9

apex



Surface anatomy

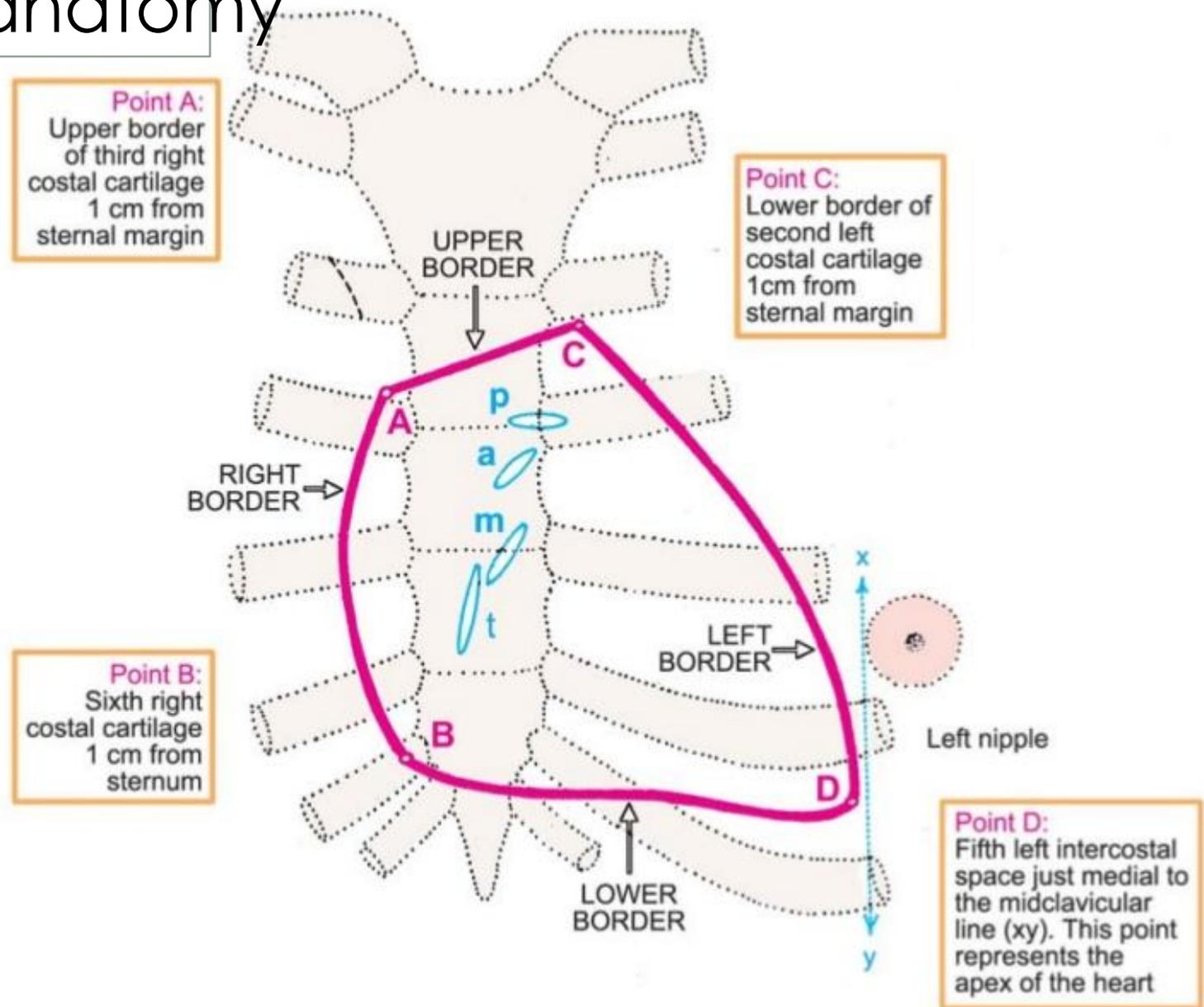
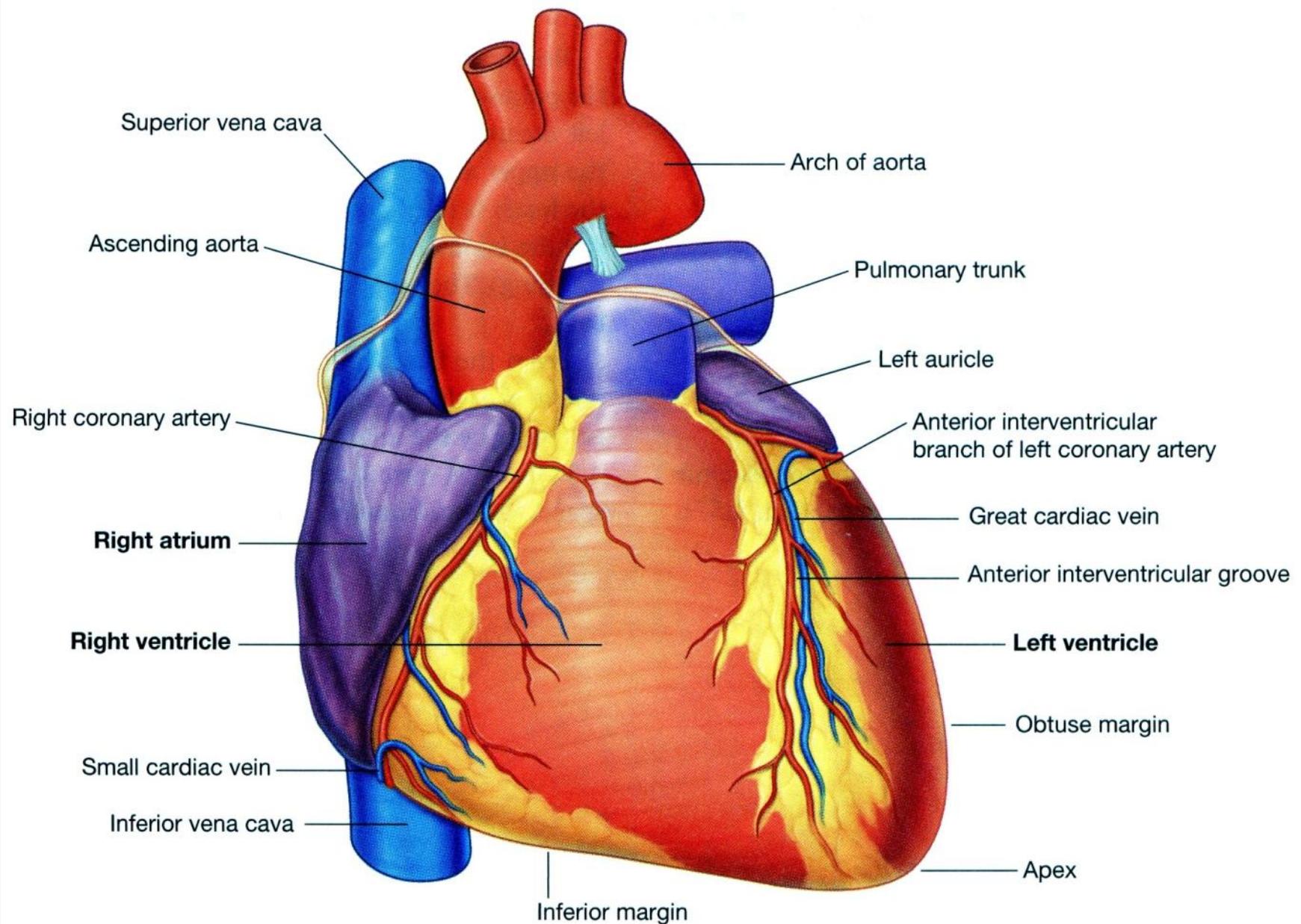
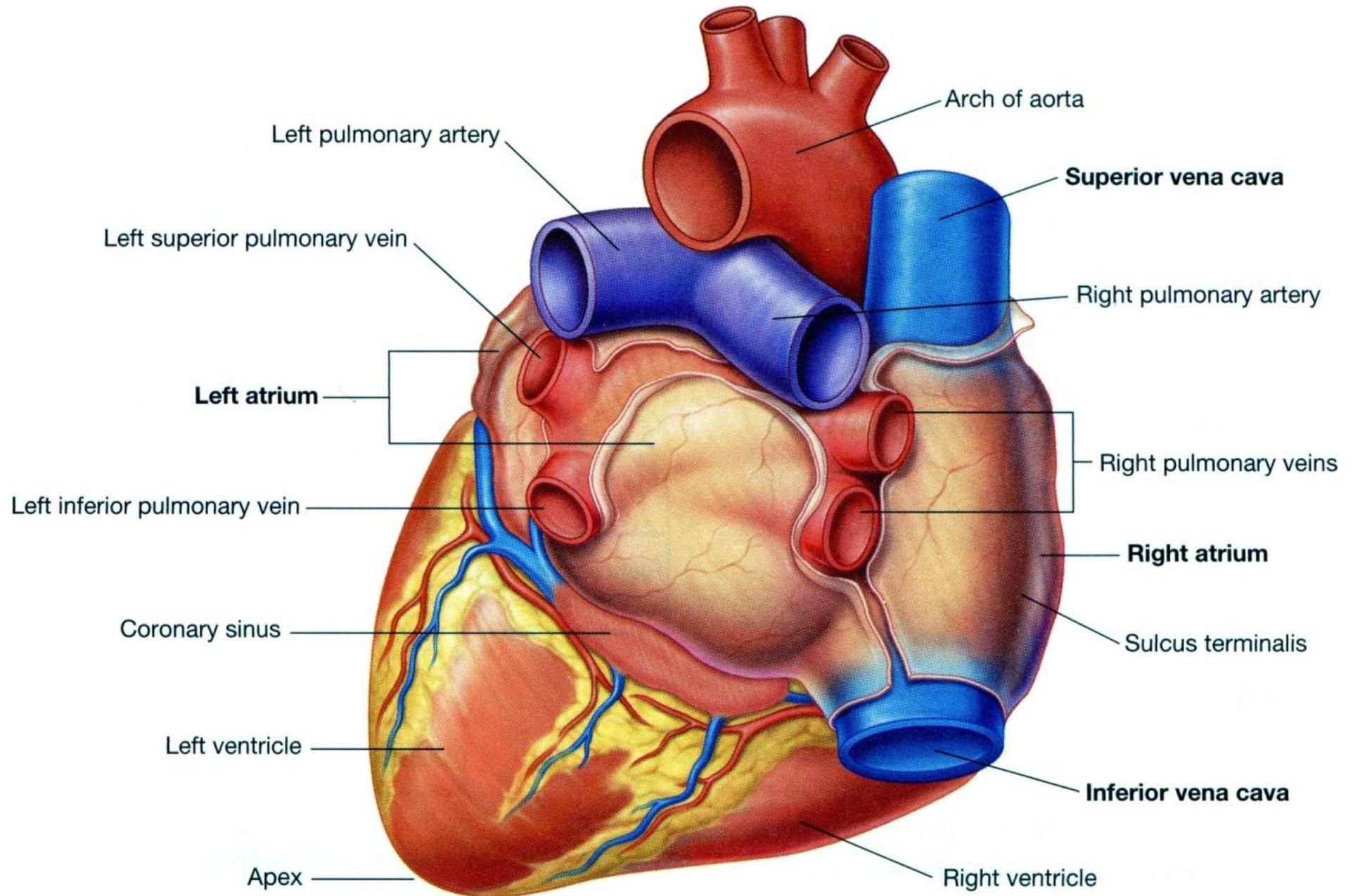


Fig. 19.18. Surface projection of the heart.

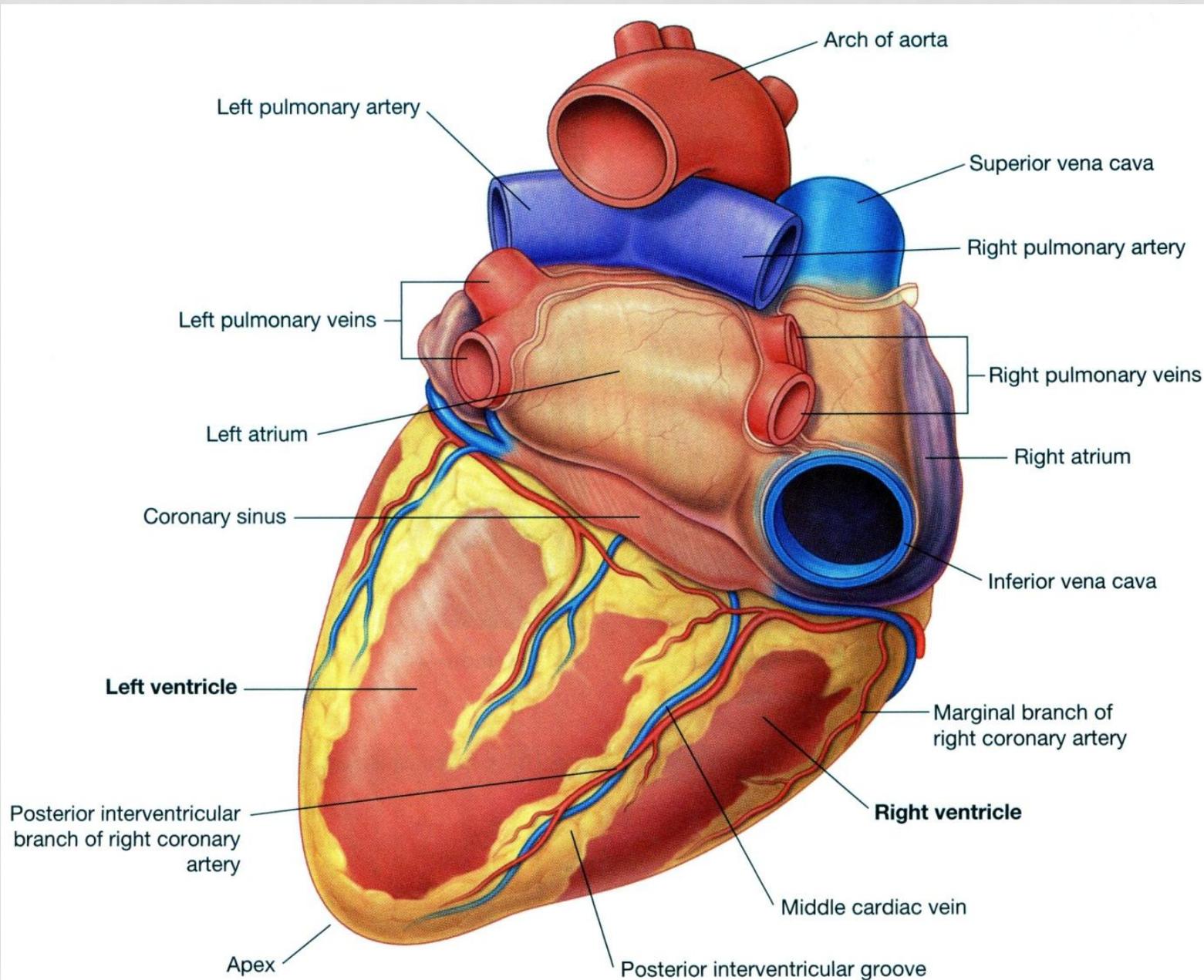
Sternocostal surface of heart



Base of Heart

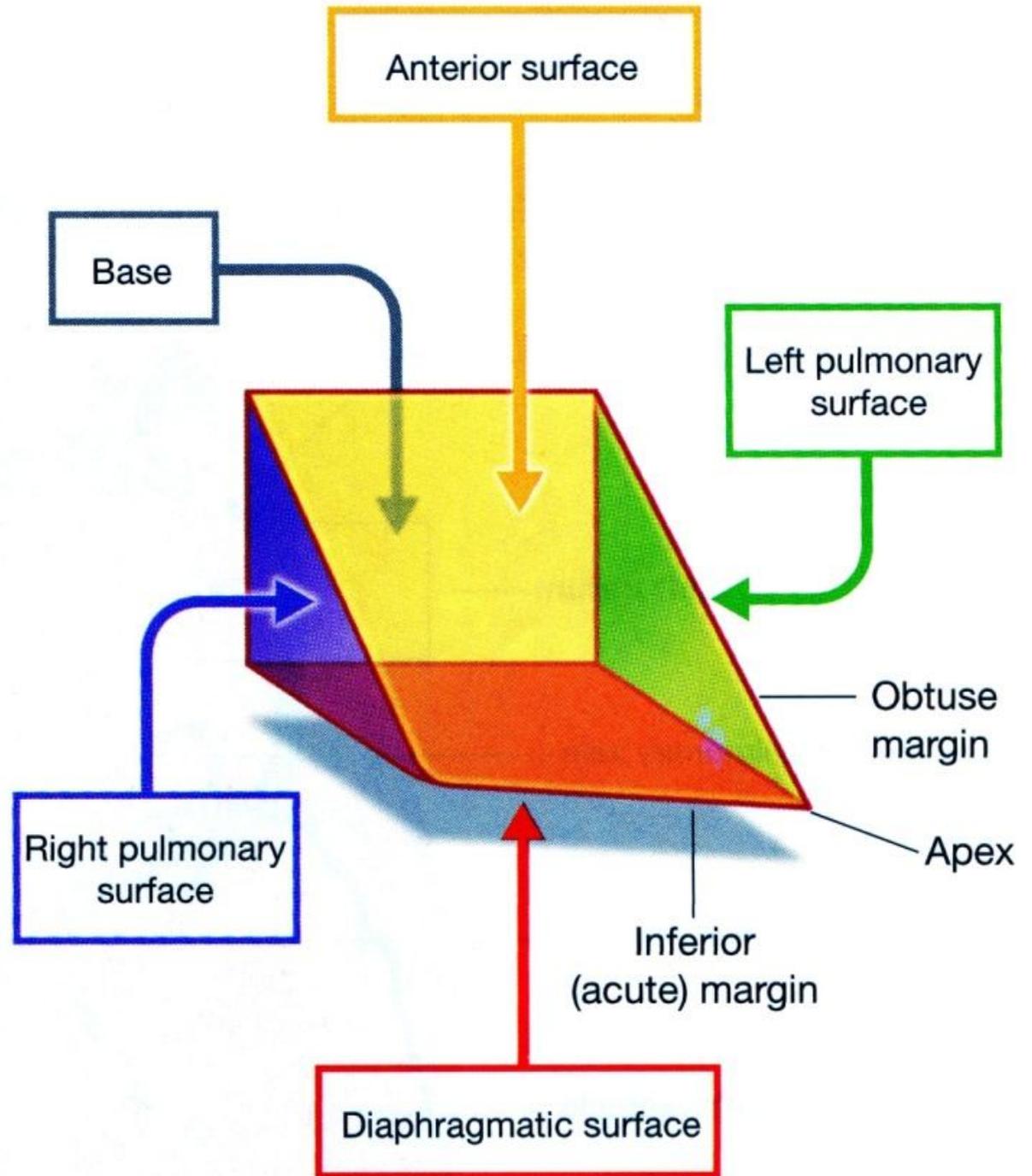


Diaphragmatic surface of heart



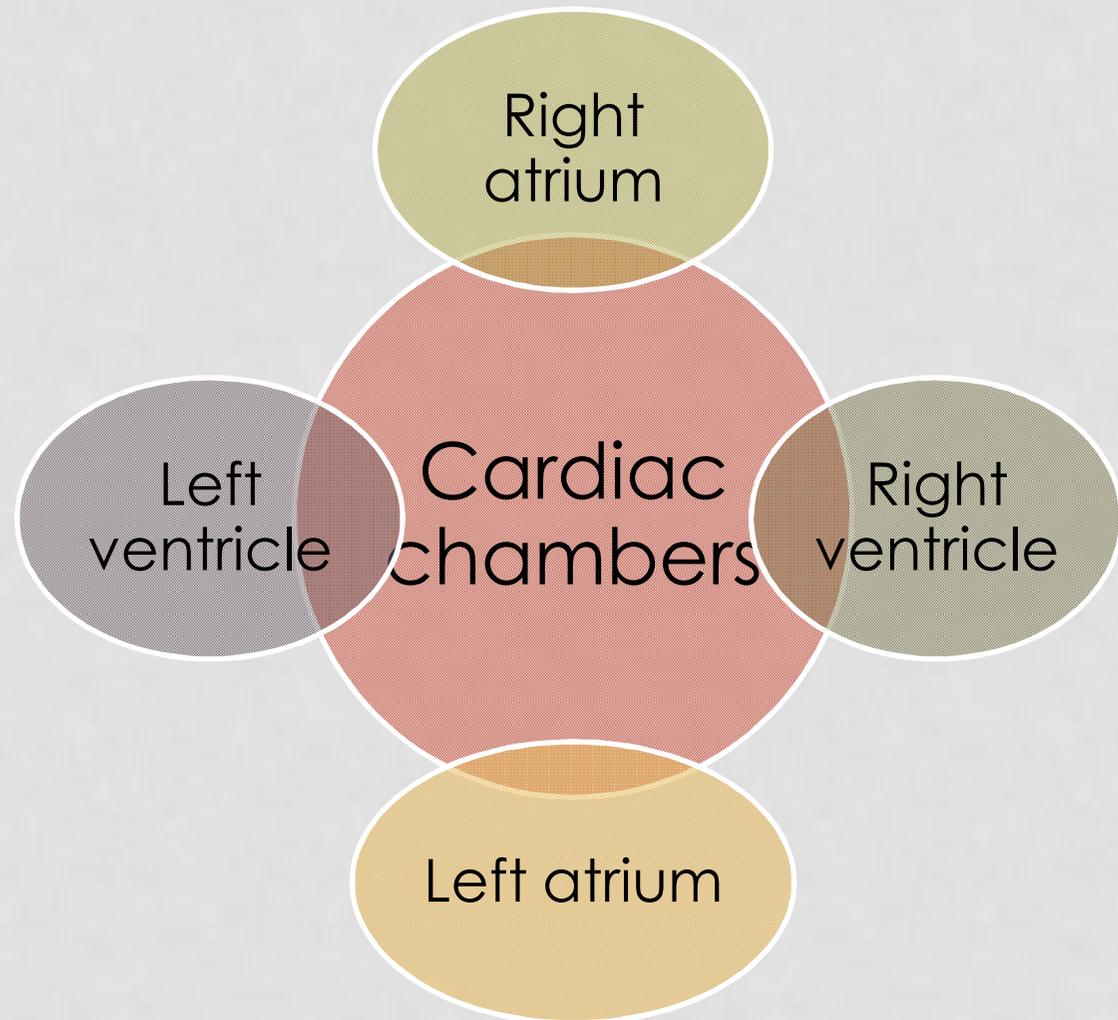
Cardiac borders:

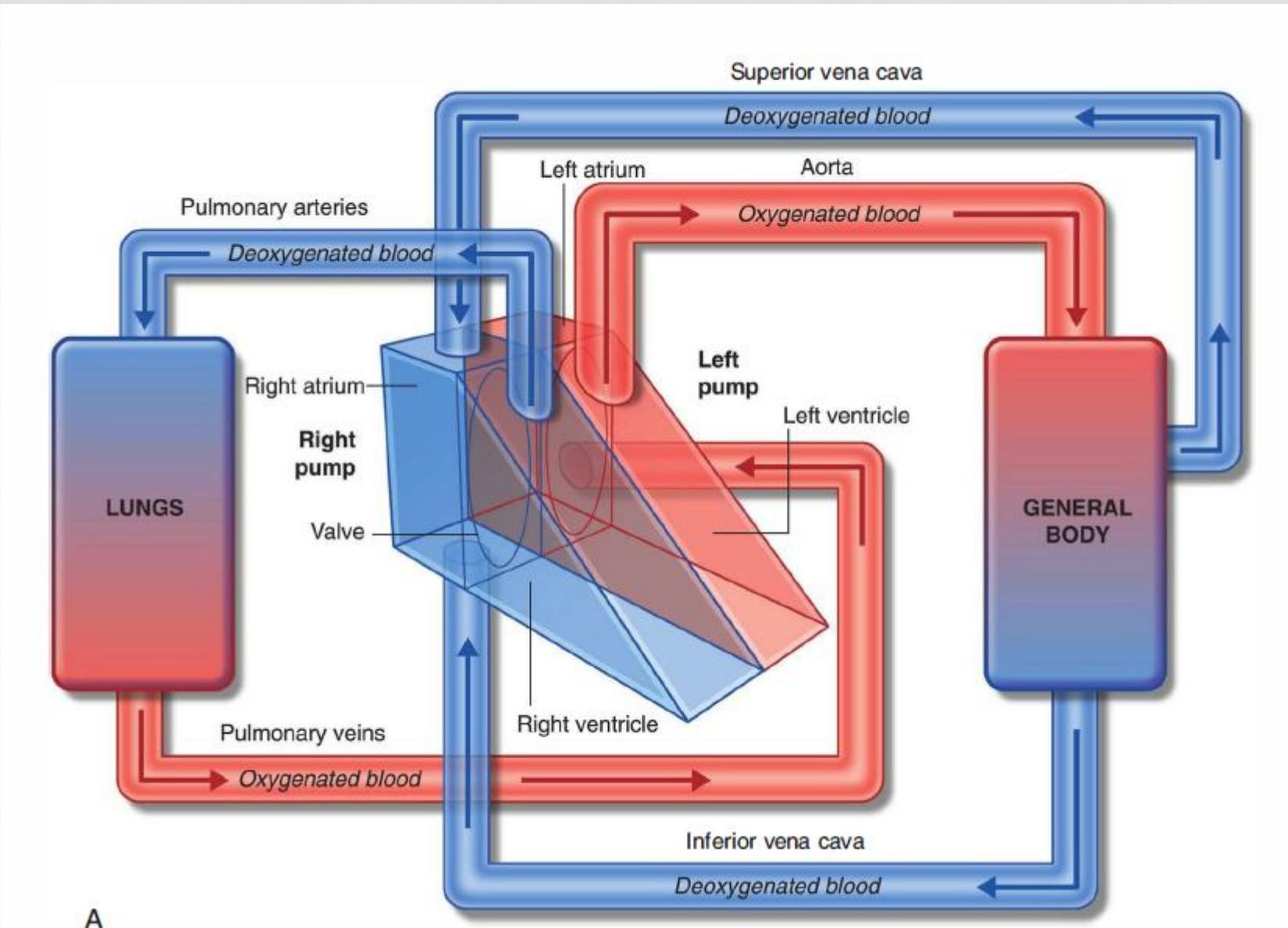
Sup./ inf./ Rt./ Lf.



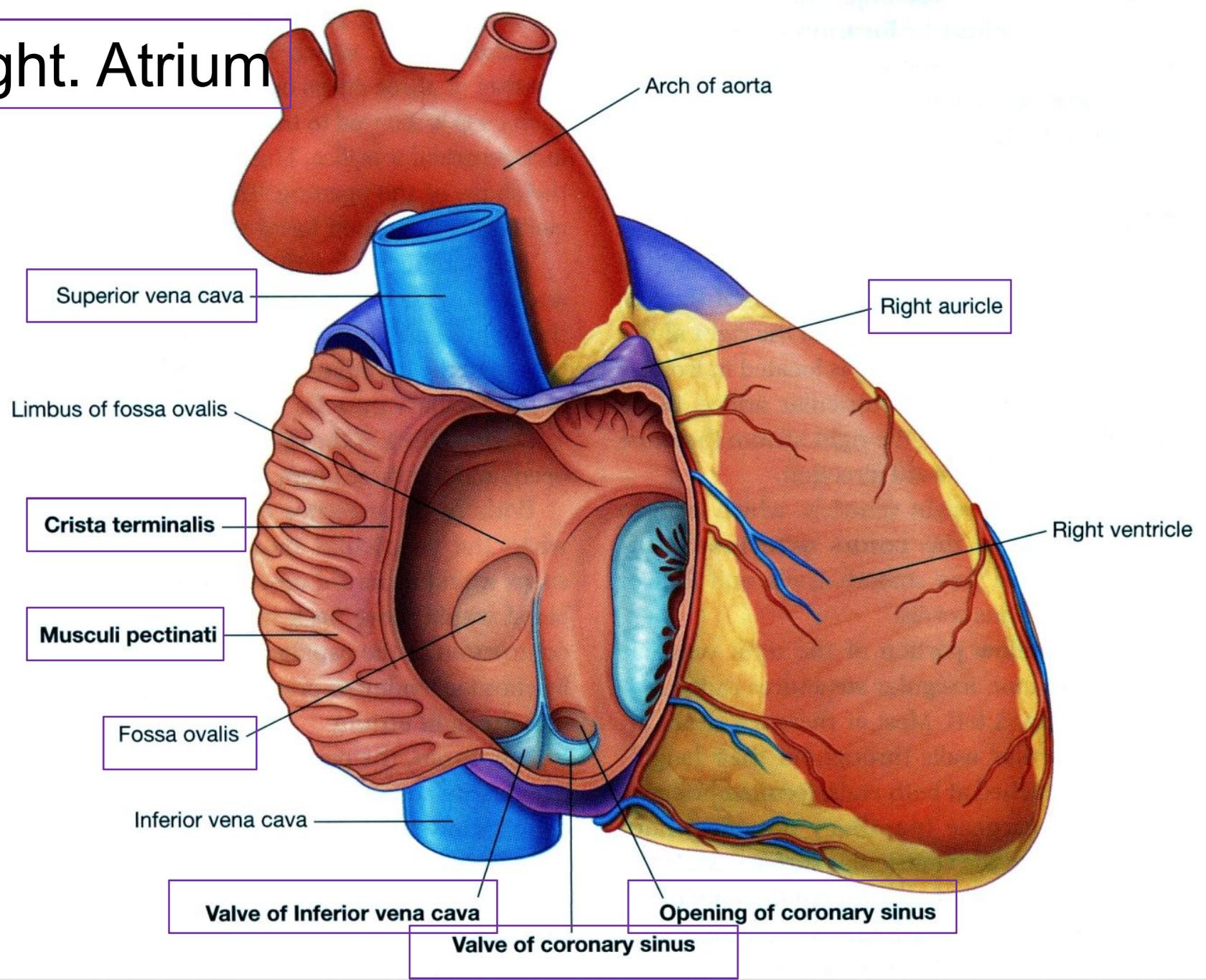
CARDIAC CHAMBERS

- Coronary Sulcus
- Ant. Interventricular Sulcus
- Post. Interventricular Sulcus
- Interatrial Sulcus

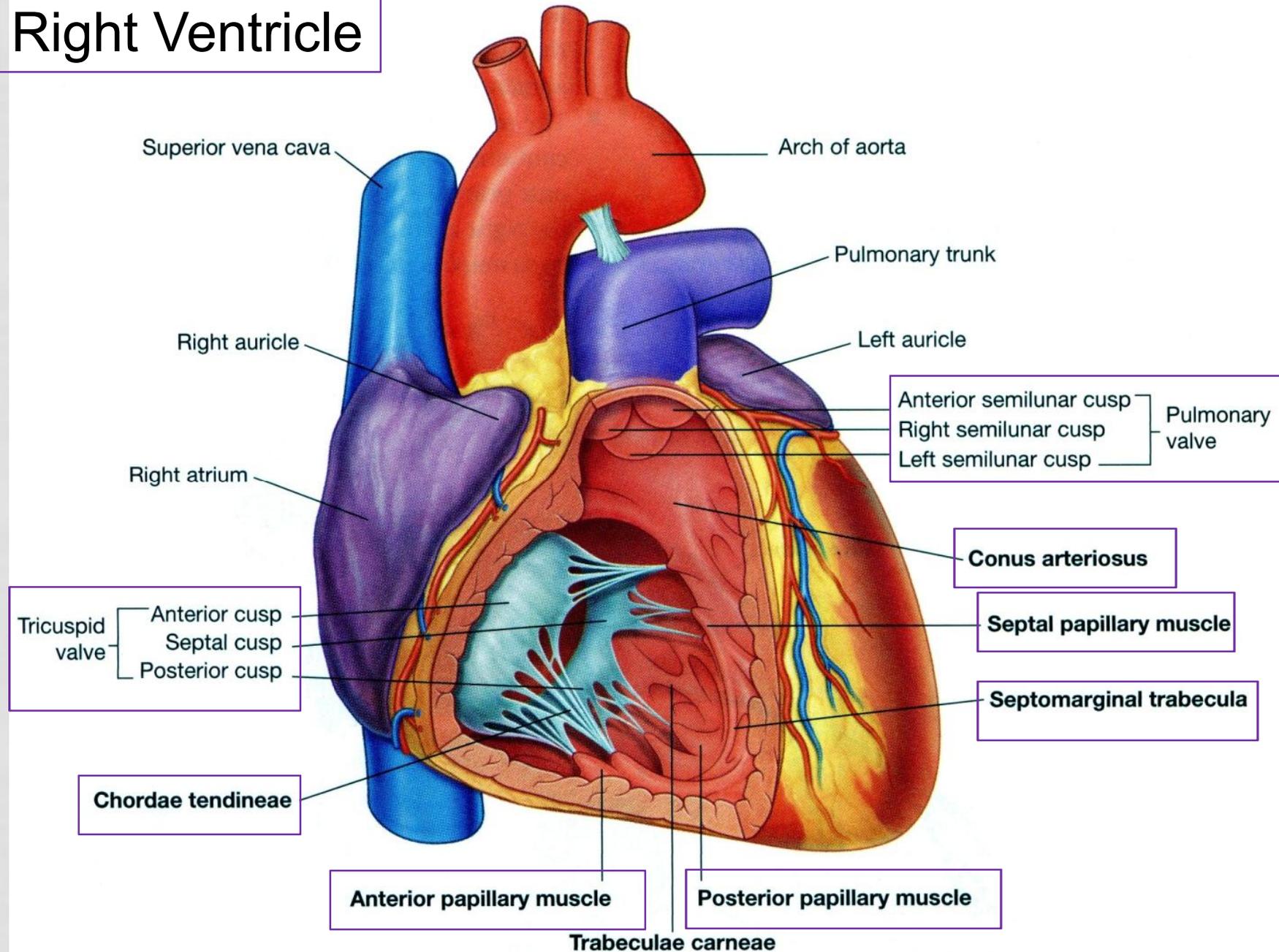




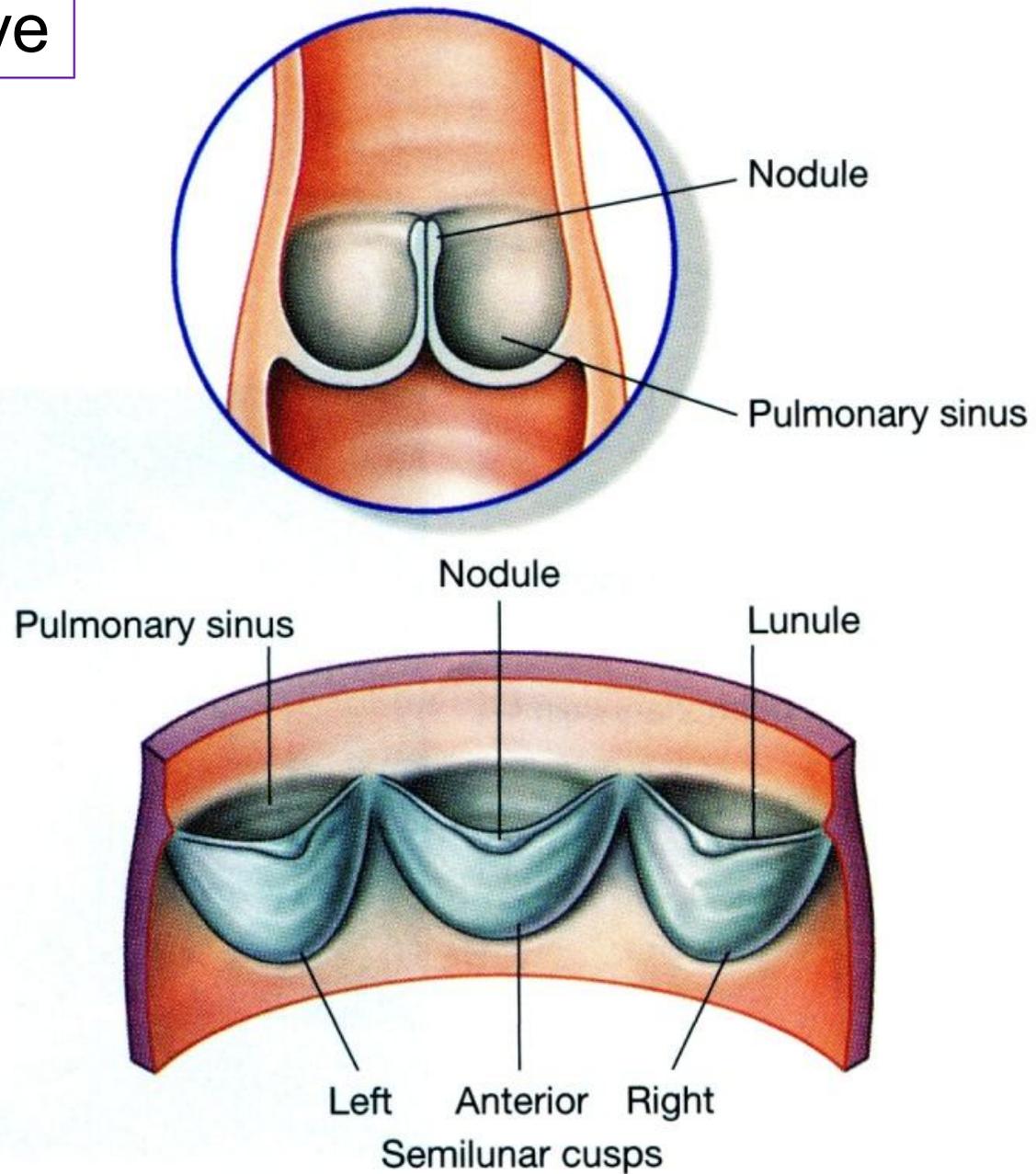
Right. Atrium



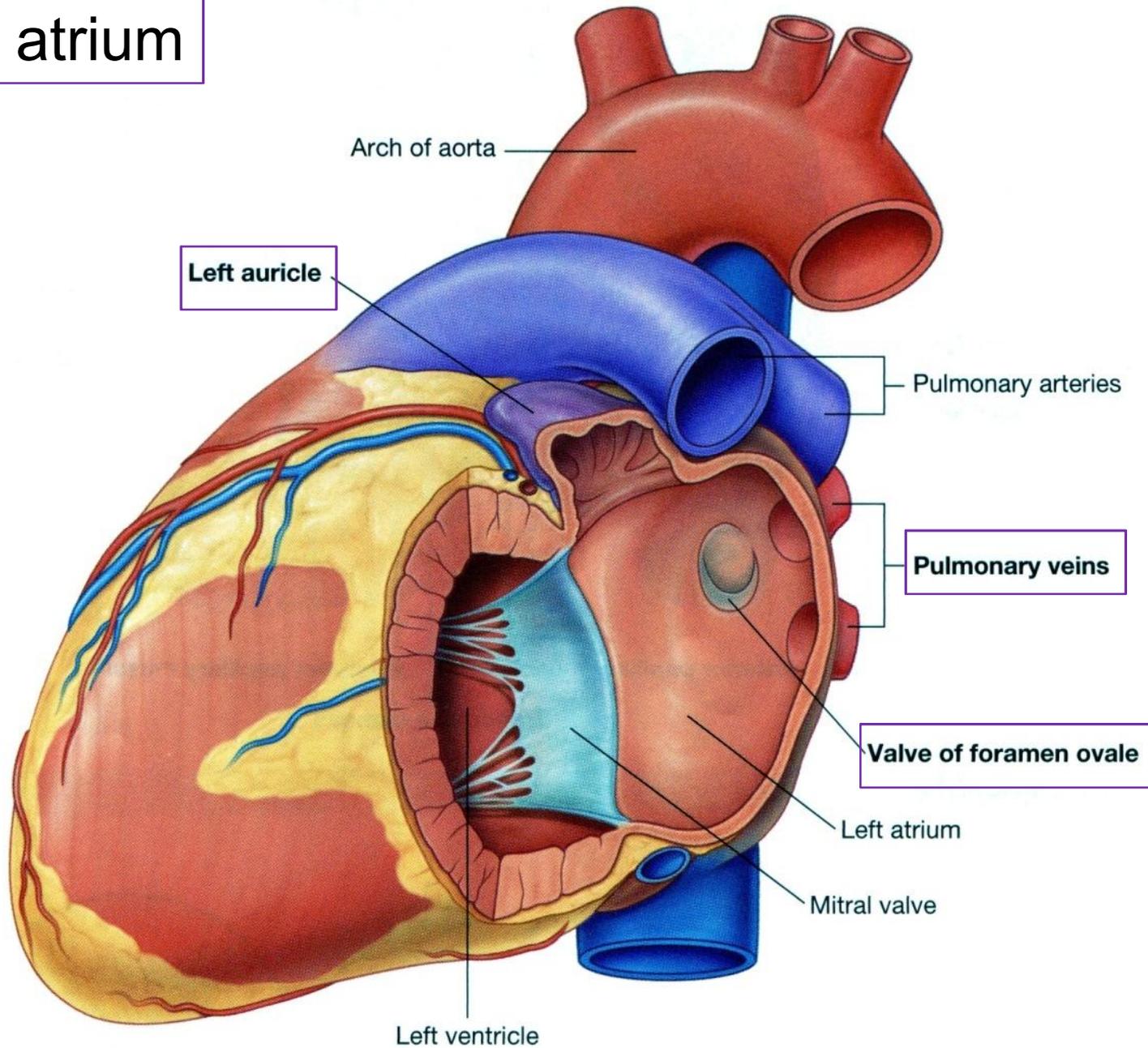
Right Ventricle



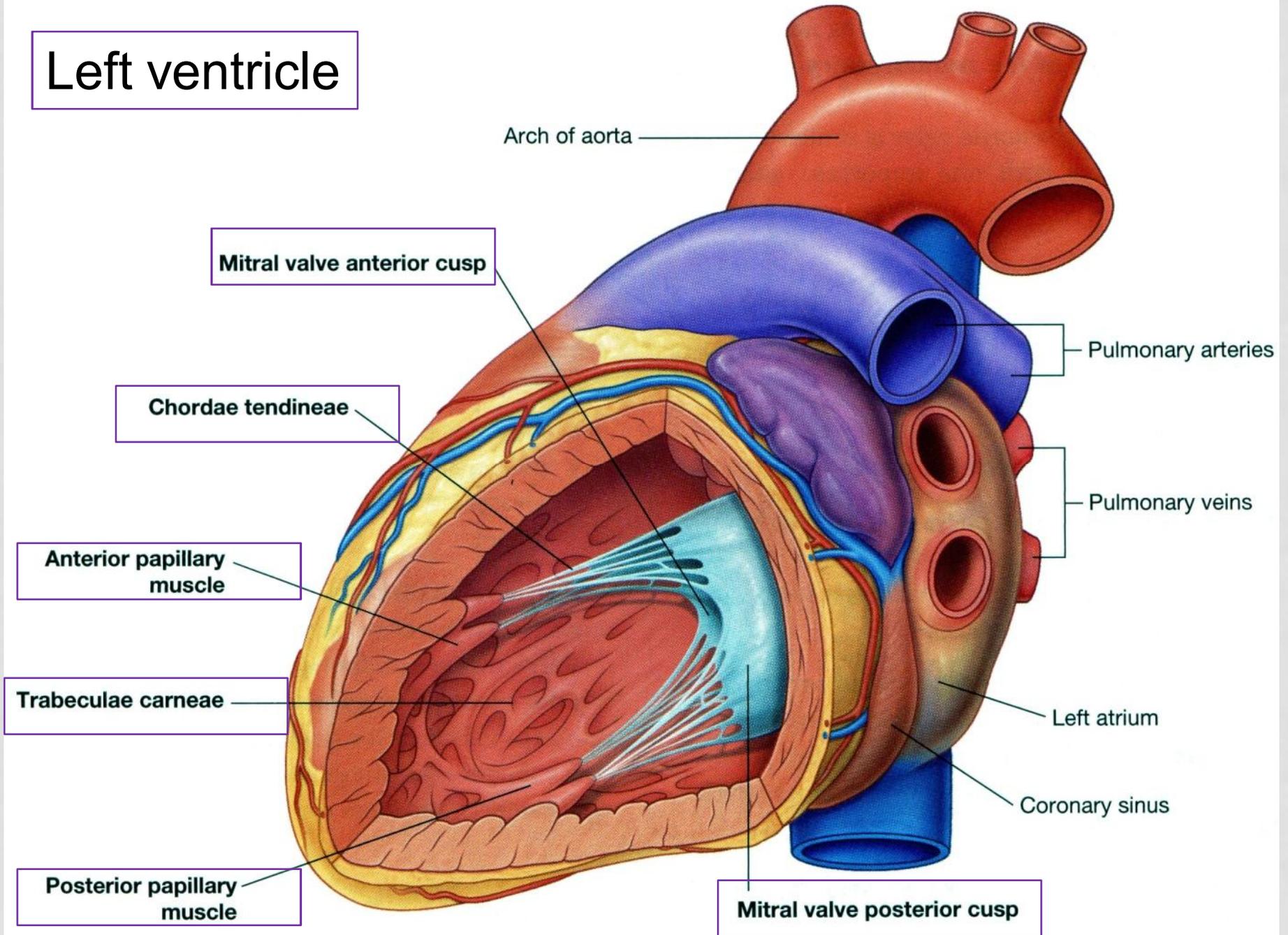
Pulmonary Valve



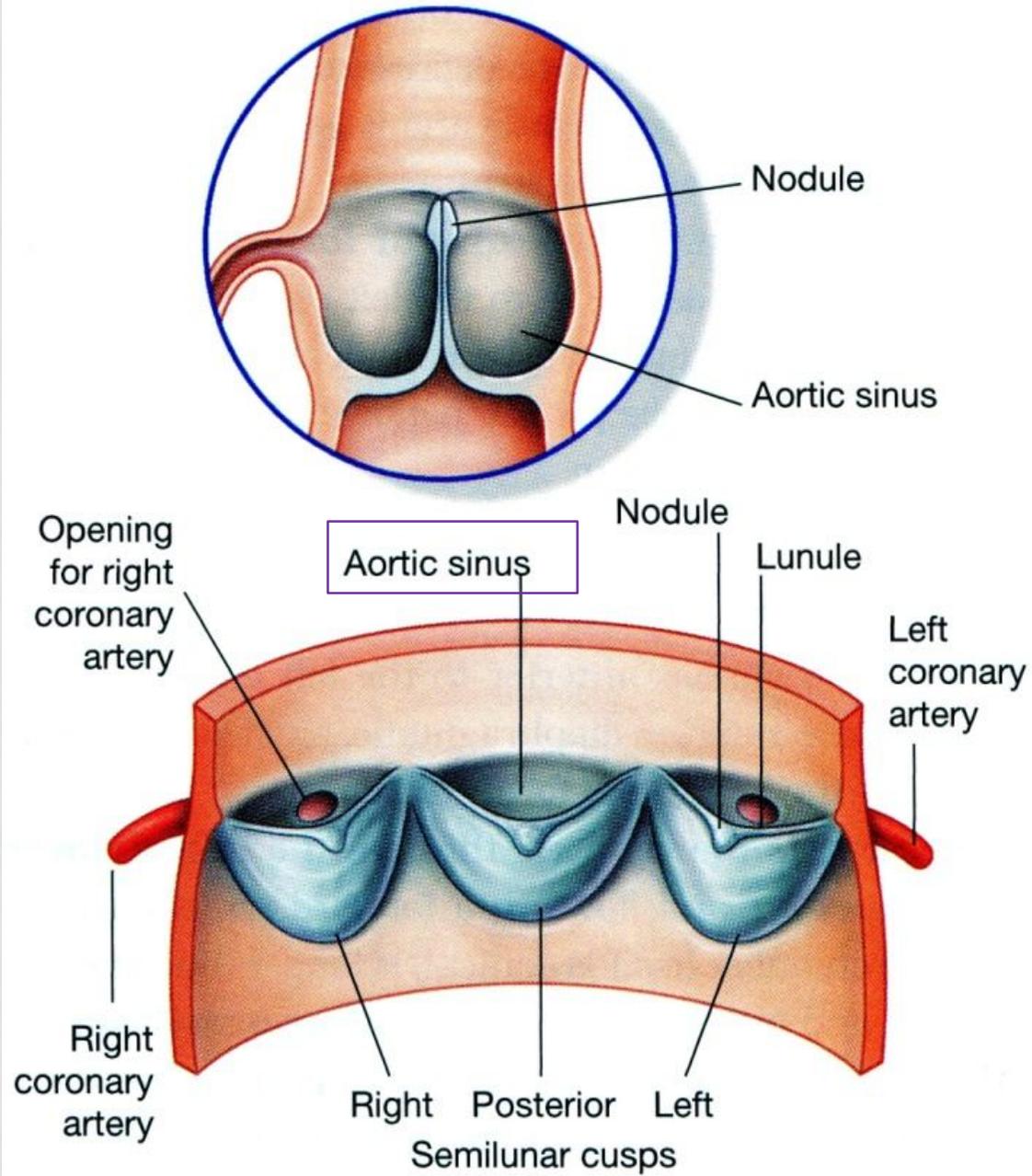
Left atrium



Left ventricle



Aortic Valve



Cardiac structure:

Epicardium:

Serouse :

Visceral
parietal

fibrouse

Myocardium
Endocardium

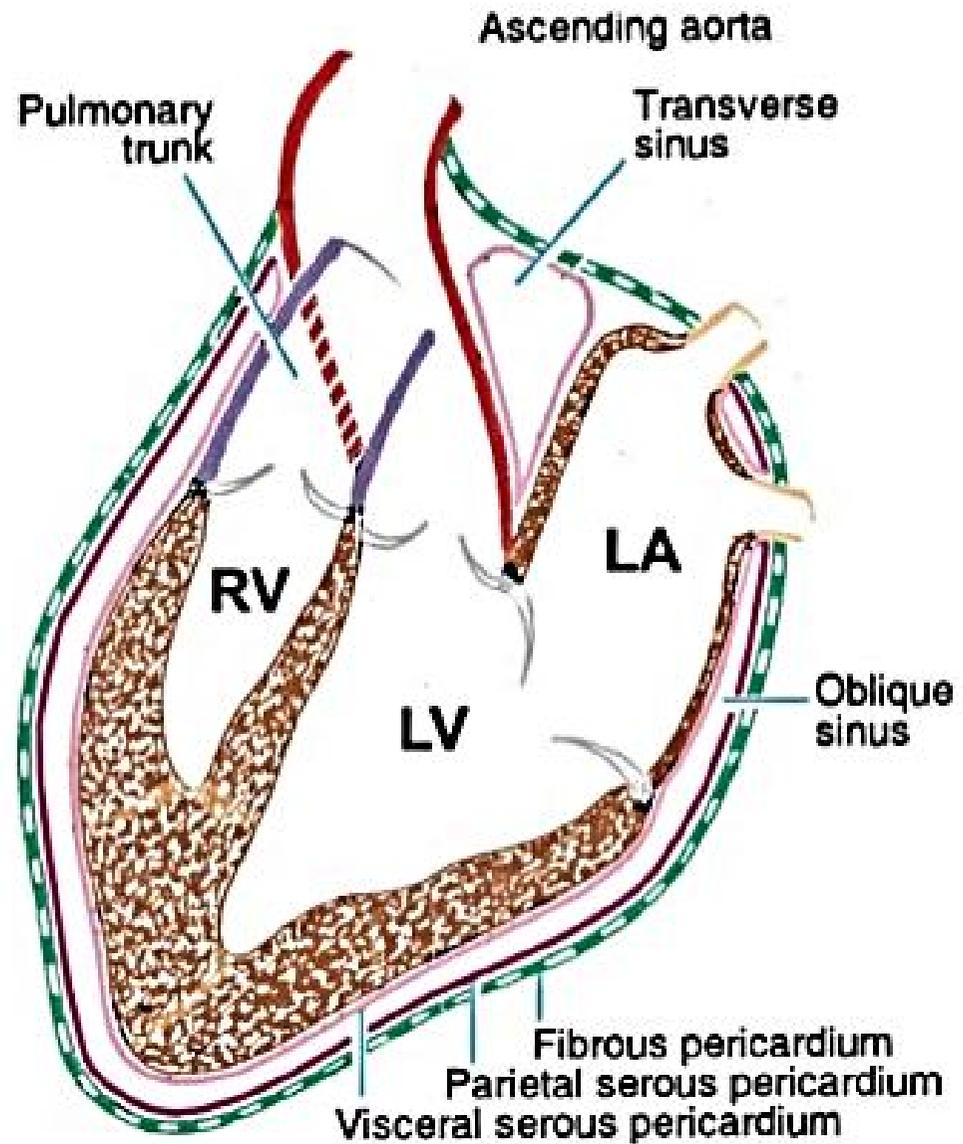


Fig. 19.17. Schematic sagittal section through the heart and pericardium.

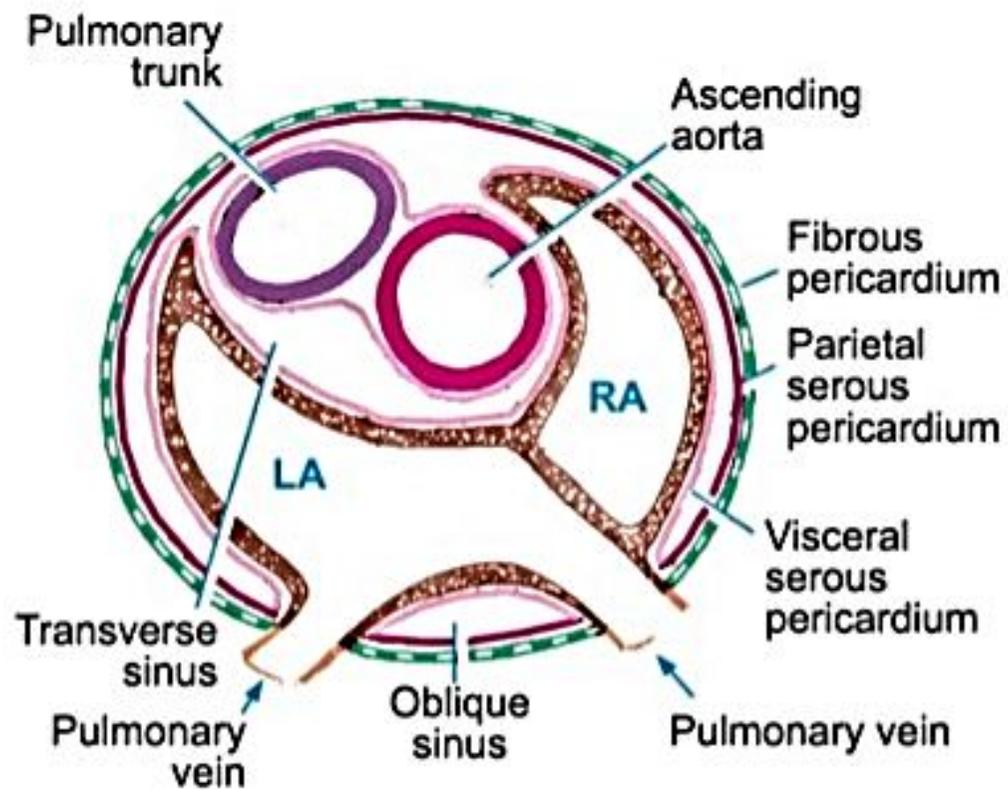
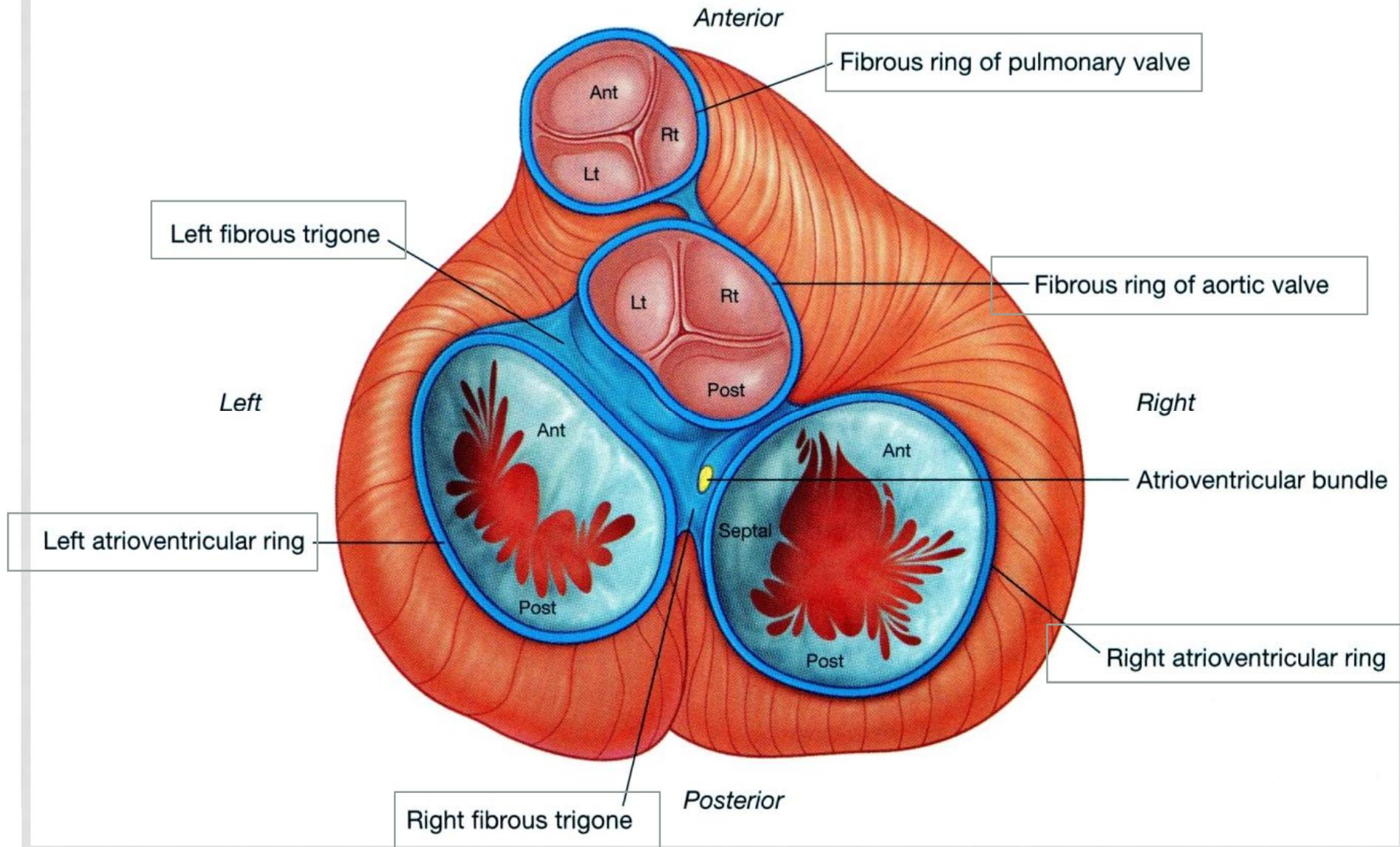


Fig. 19.16. Schematic transverse section through the upper part of the heart and pericardium.

Cardiac Fibrous Skeletal



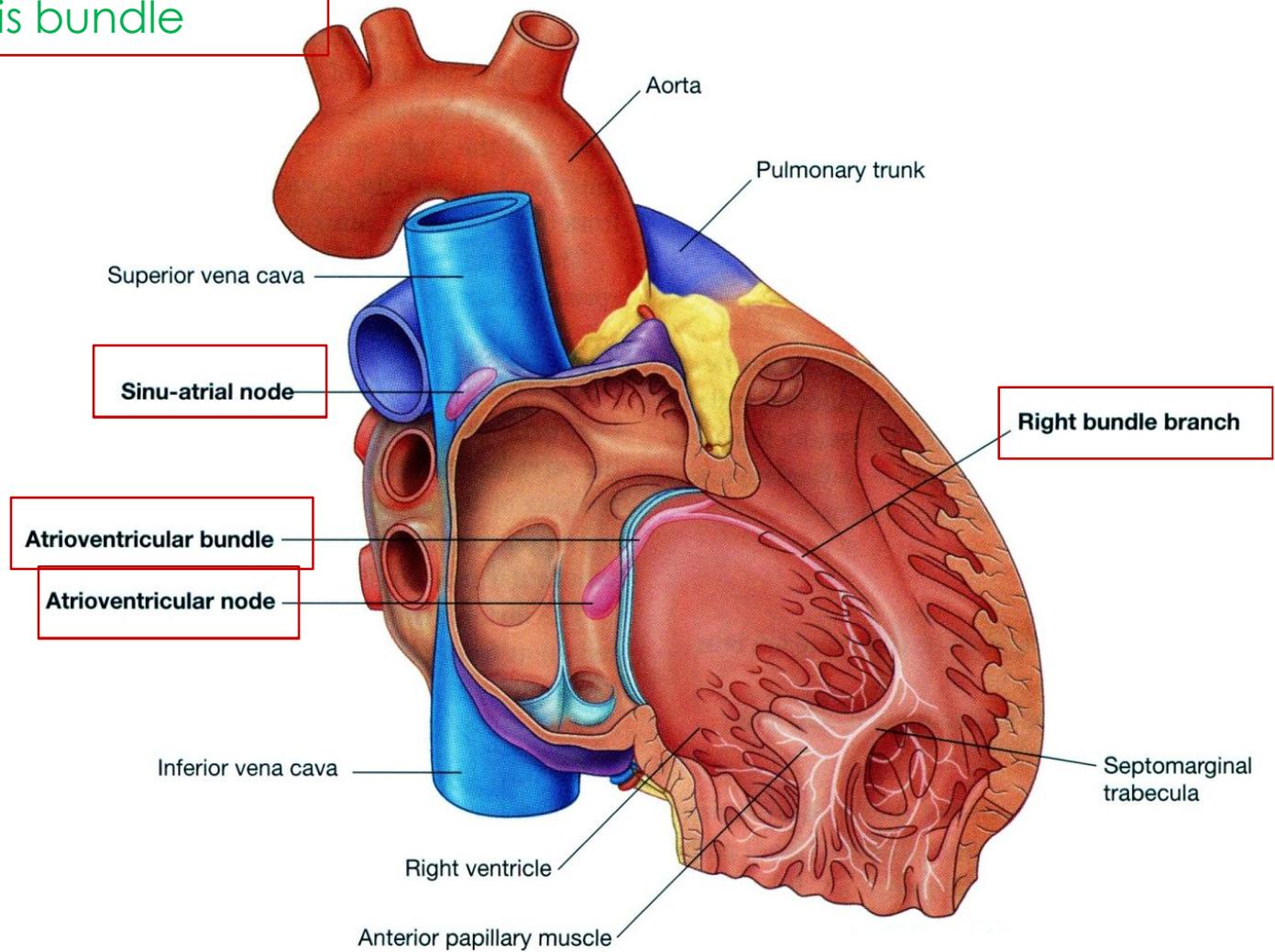
Conducting System Of The Heart:

SA node

AV node

His bundle

Rt. & Lf. branch of His bundle



Anterior papillary muscle

Aorta

Pulmonary trunk

Left bundle branch

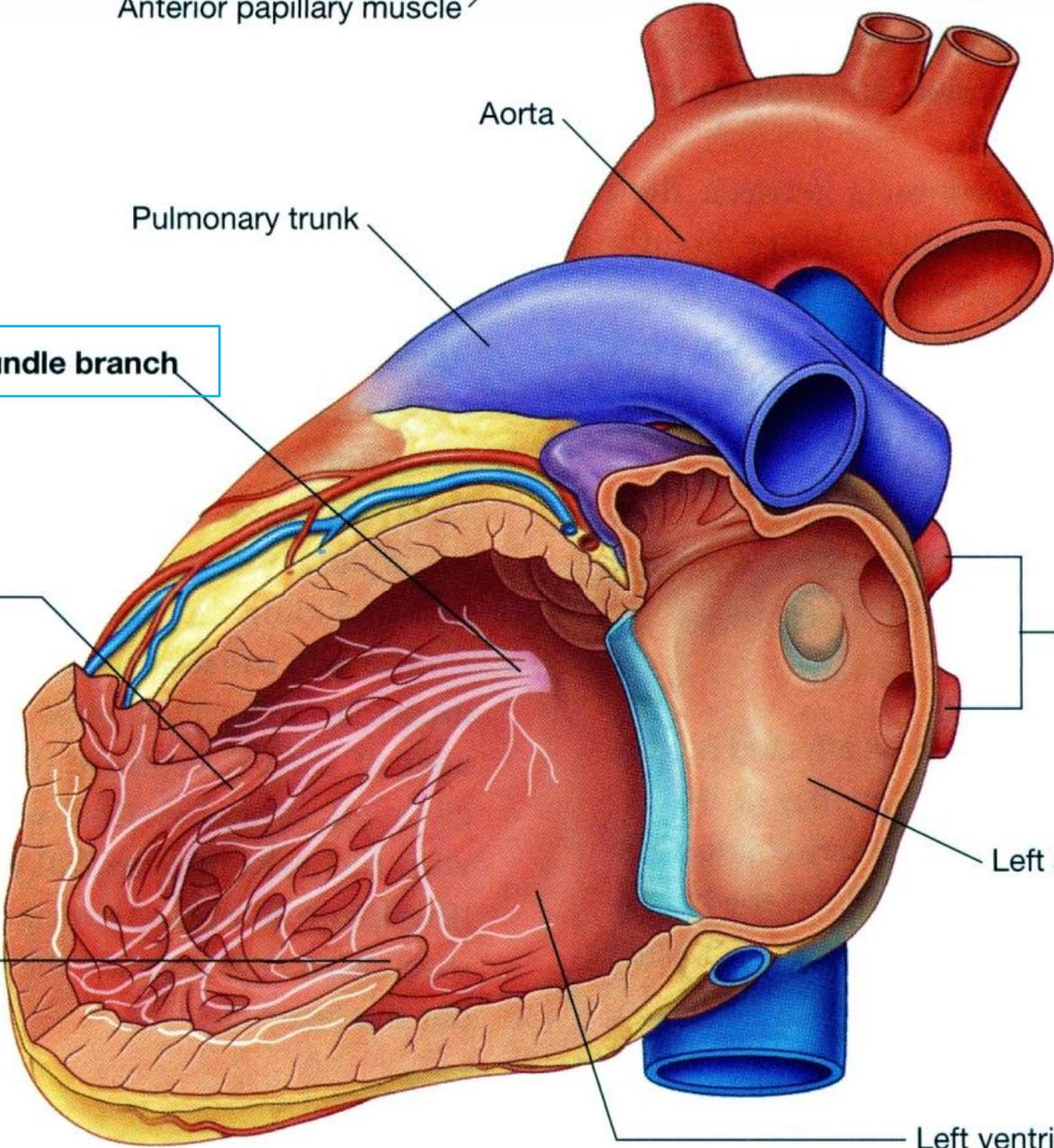
Anterior papillary muscle

Right pulmonary veins

Left atrium

Posterior papillary muscle

Left ventricle



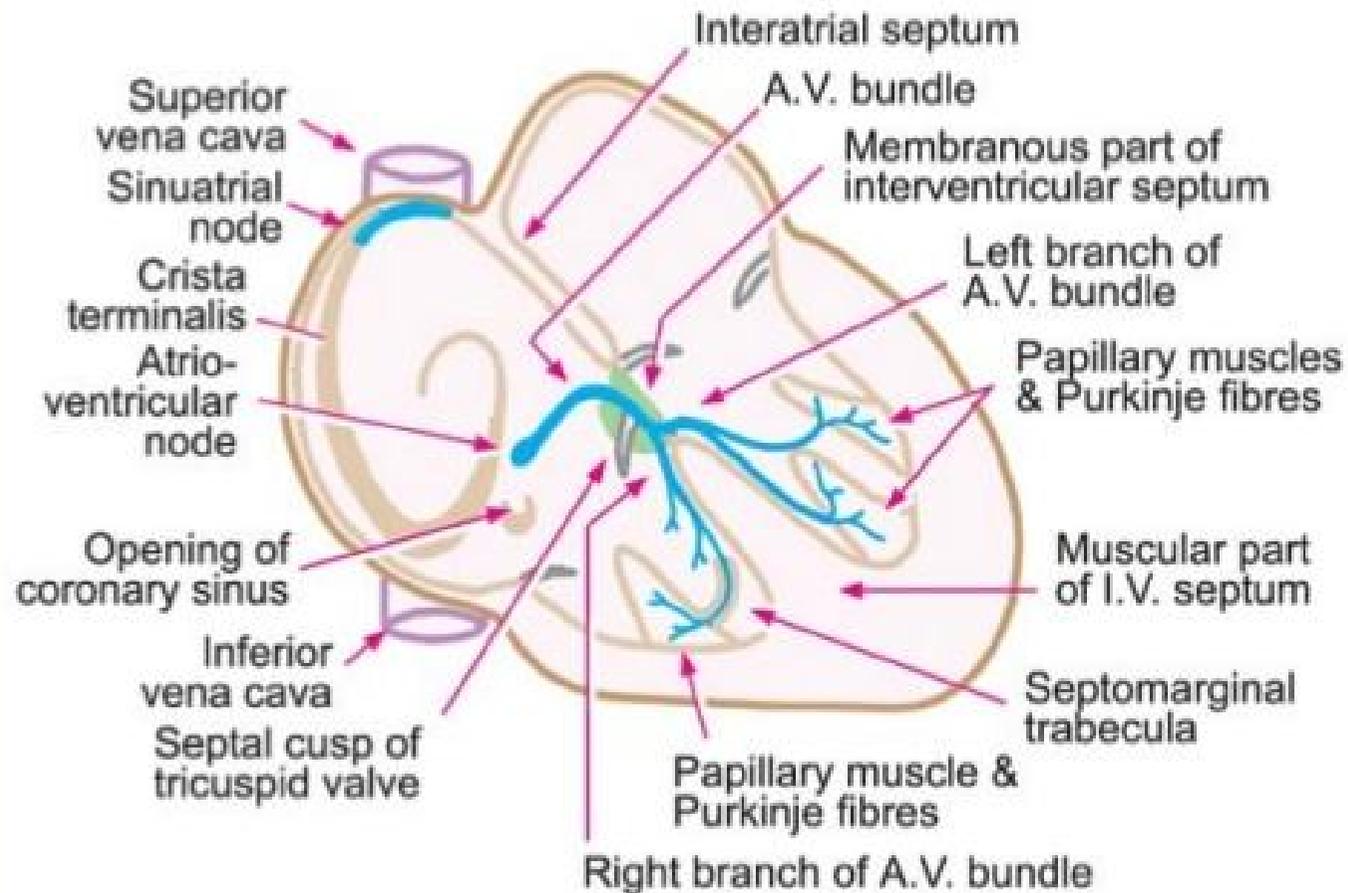
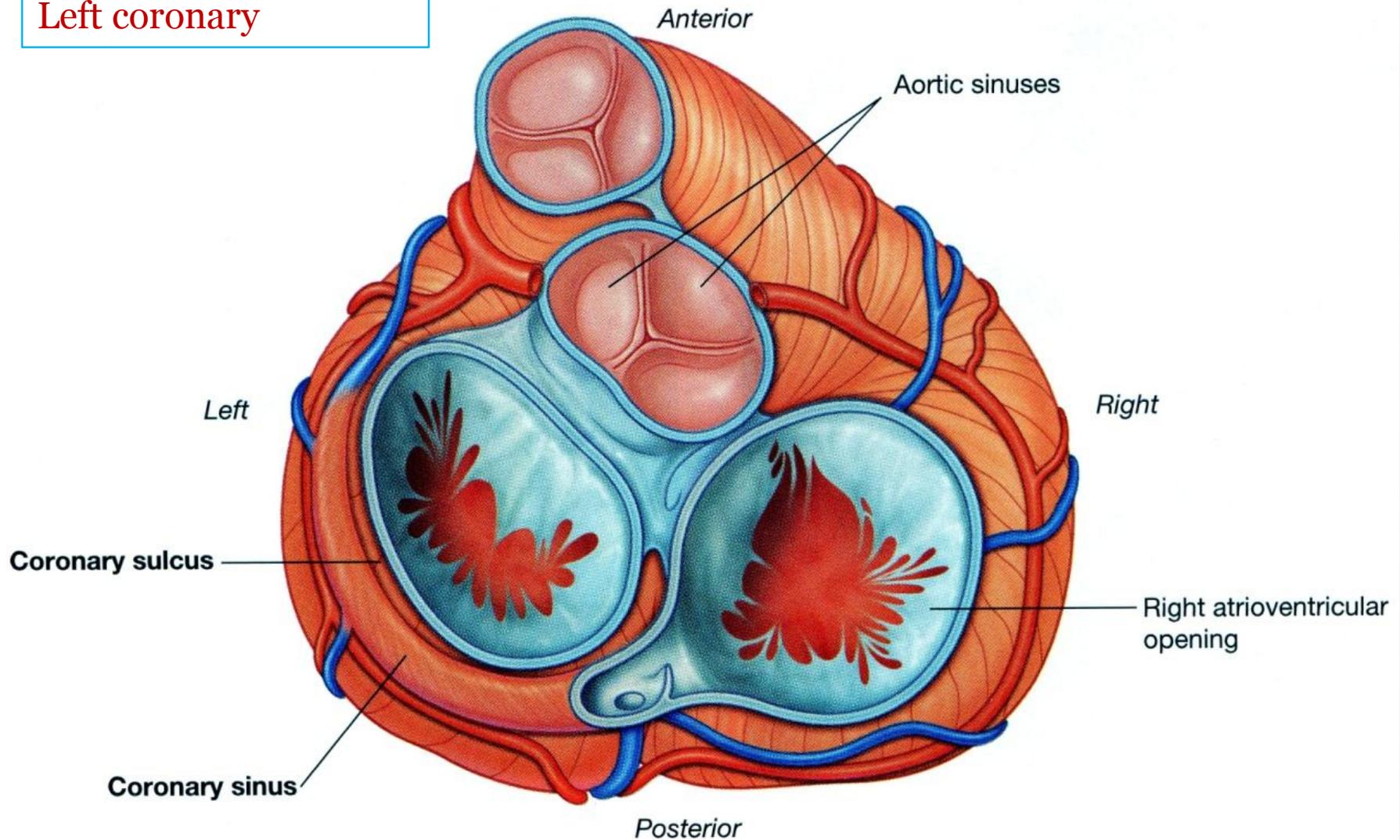


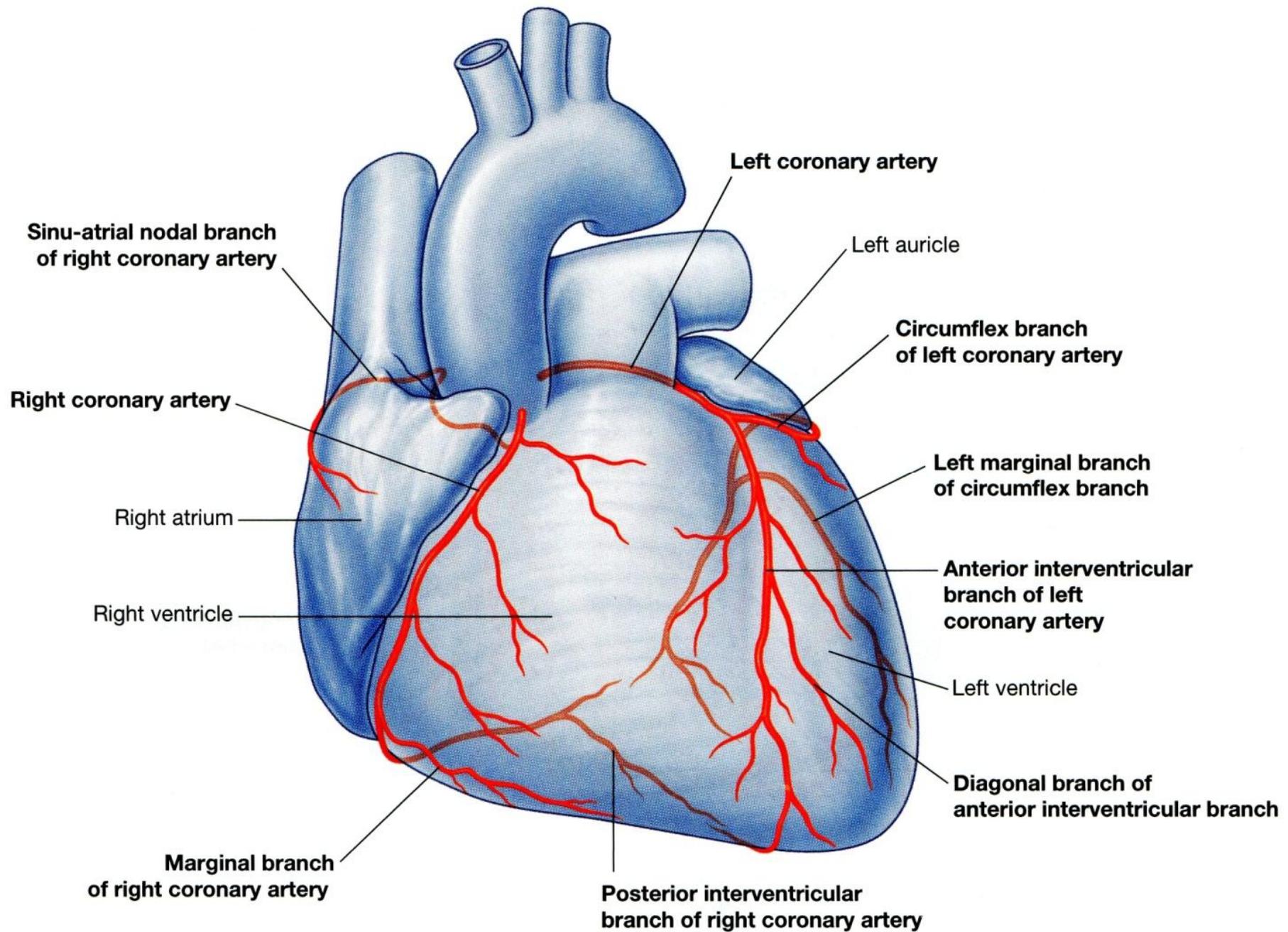
Fig. 19.15. Schematic view of the interior of the heart to show parts of the conducting system.

Cardiac Arteries:

Right coronary

Left coronary





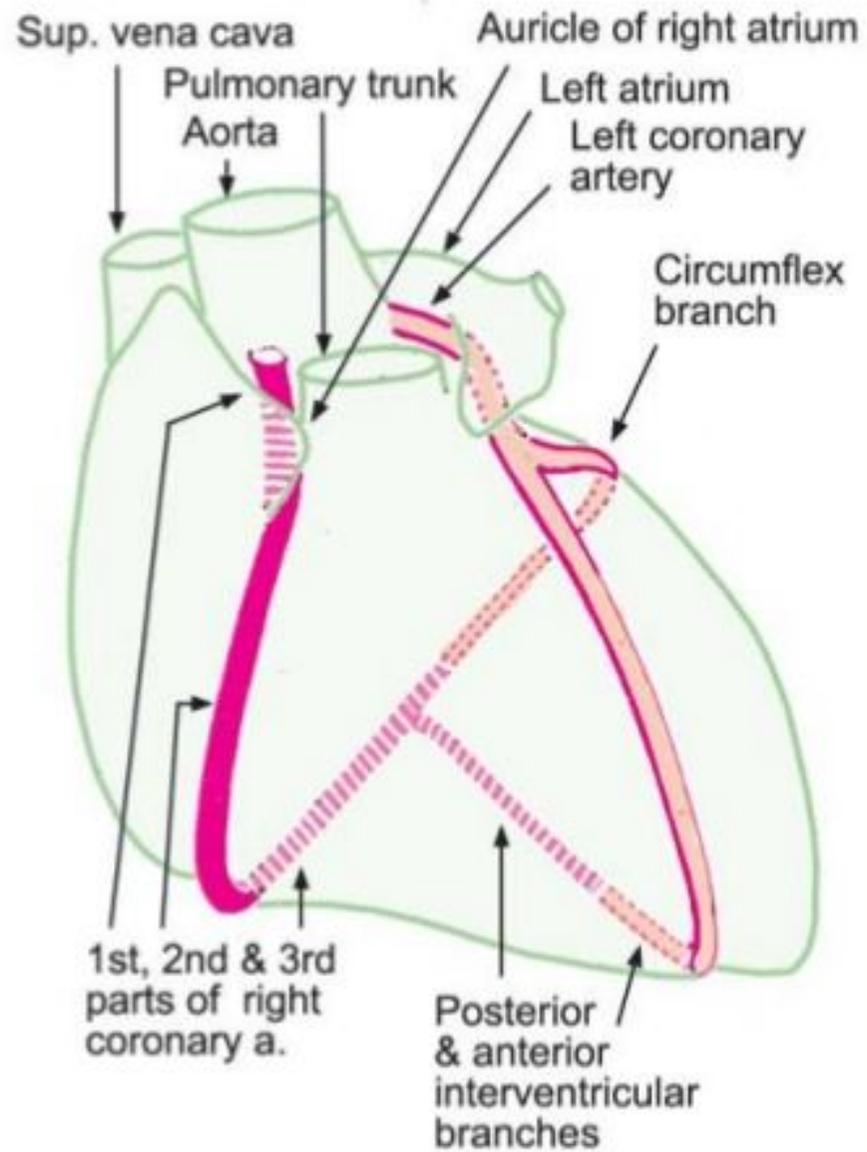


Fig. 20.9. Scheme to show the coronary arteries and their interventricular branches.

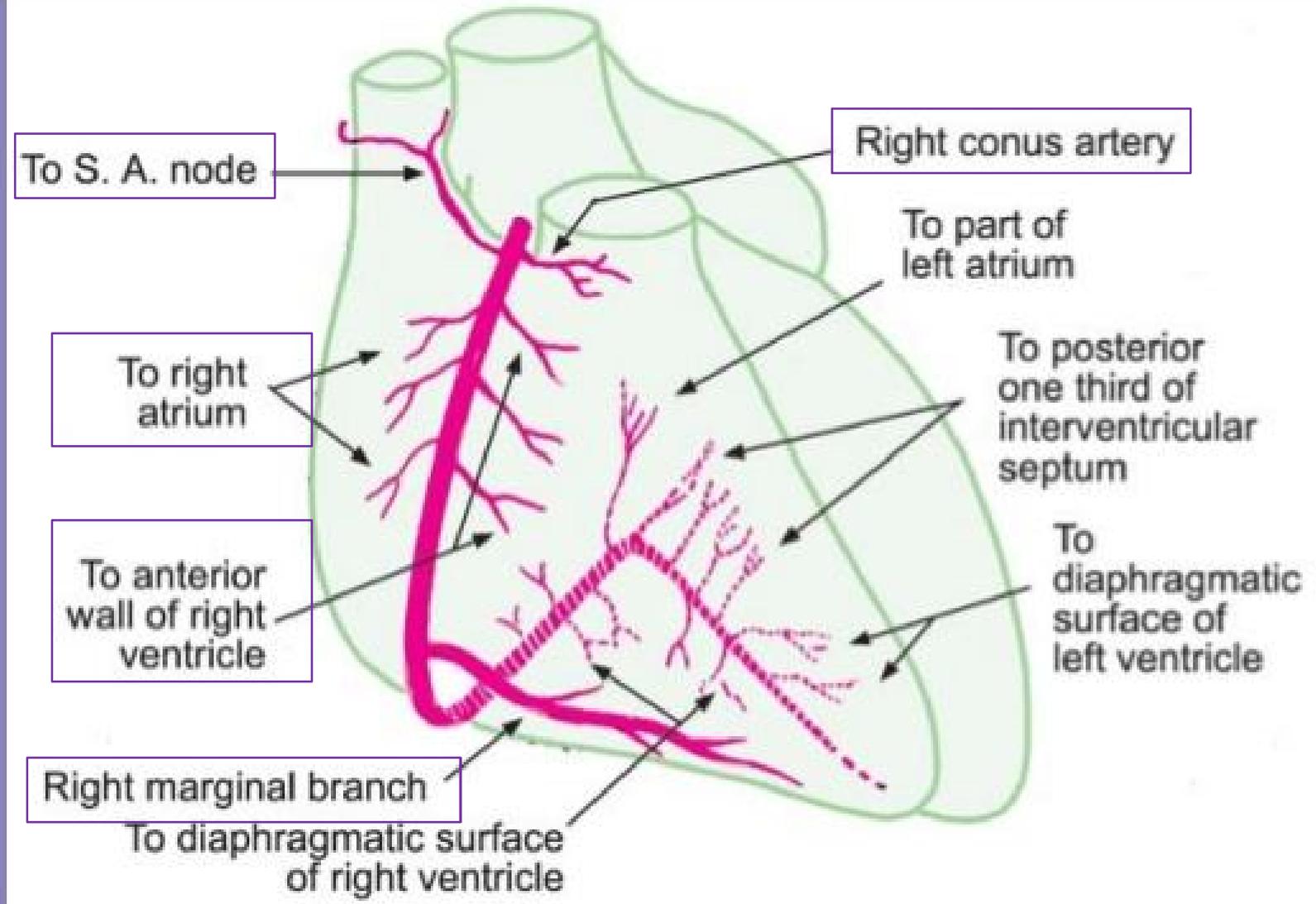


Fig. 20.10. Distribution of the right coronary artery.

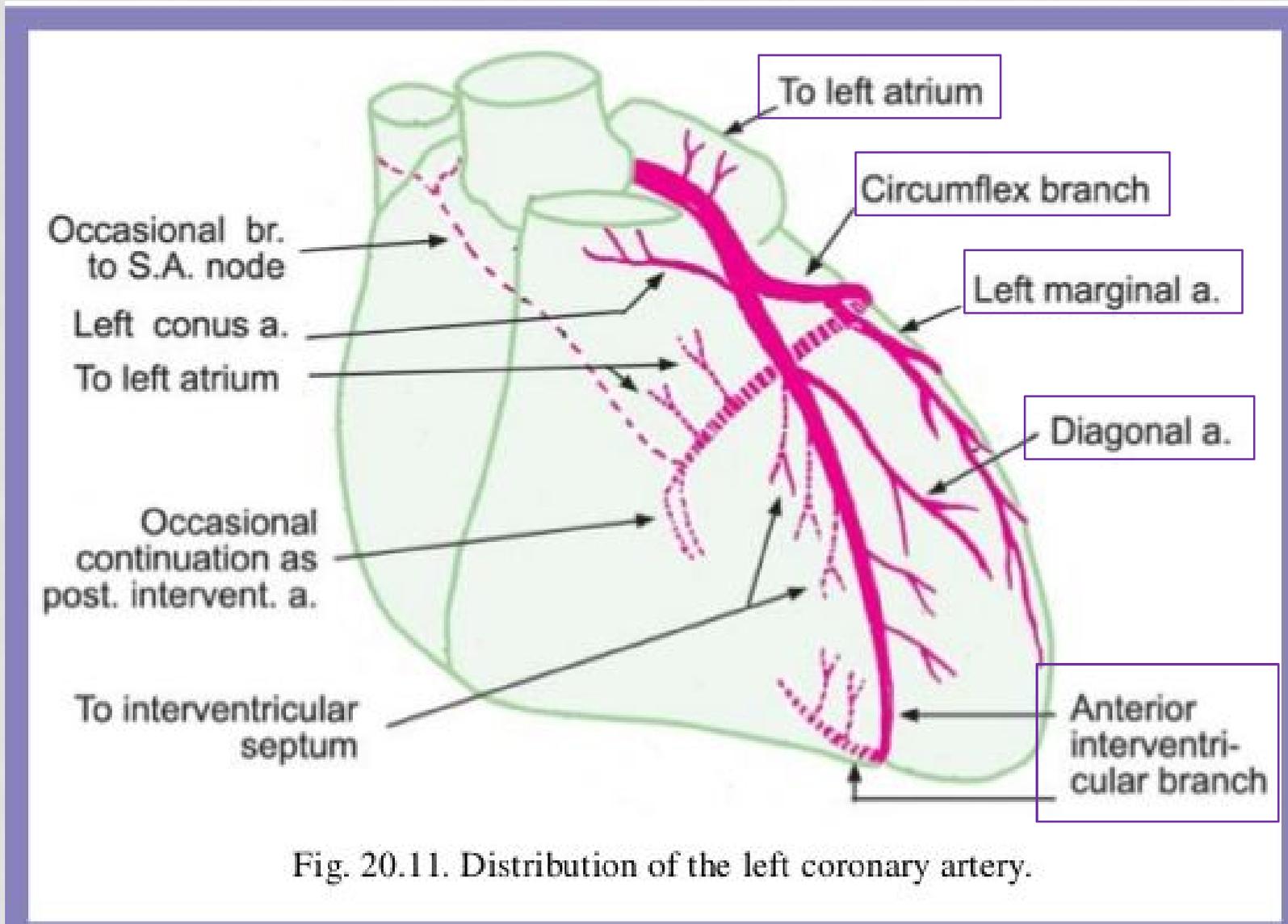
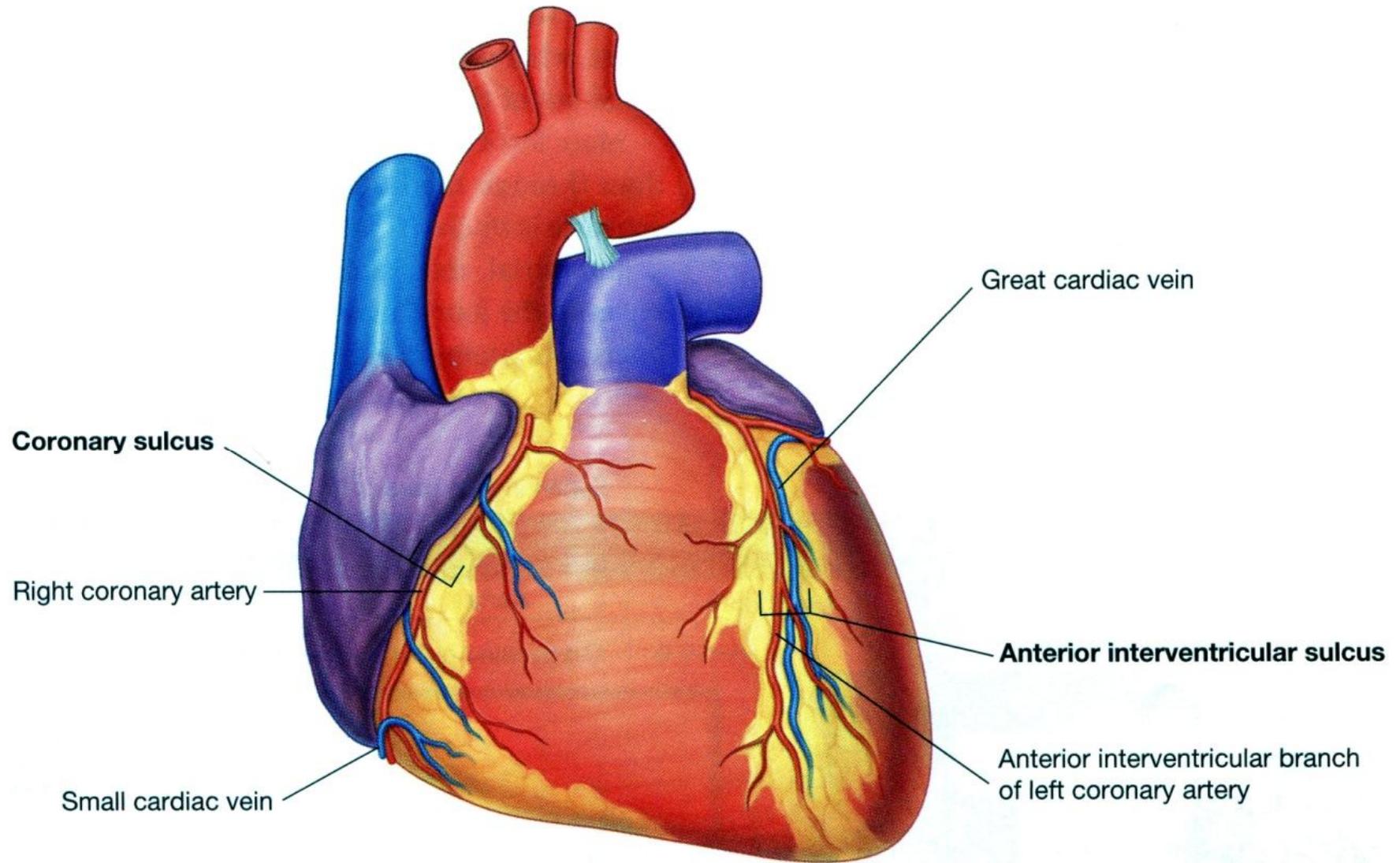
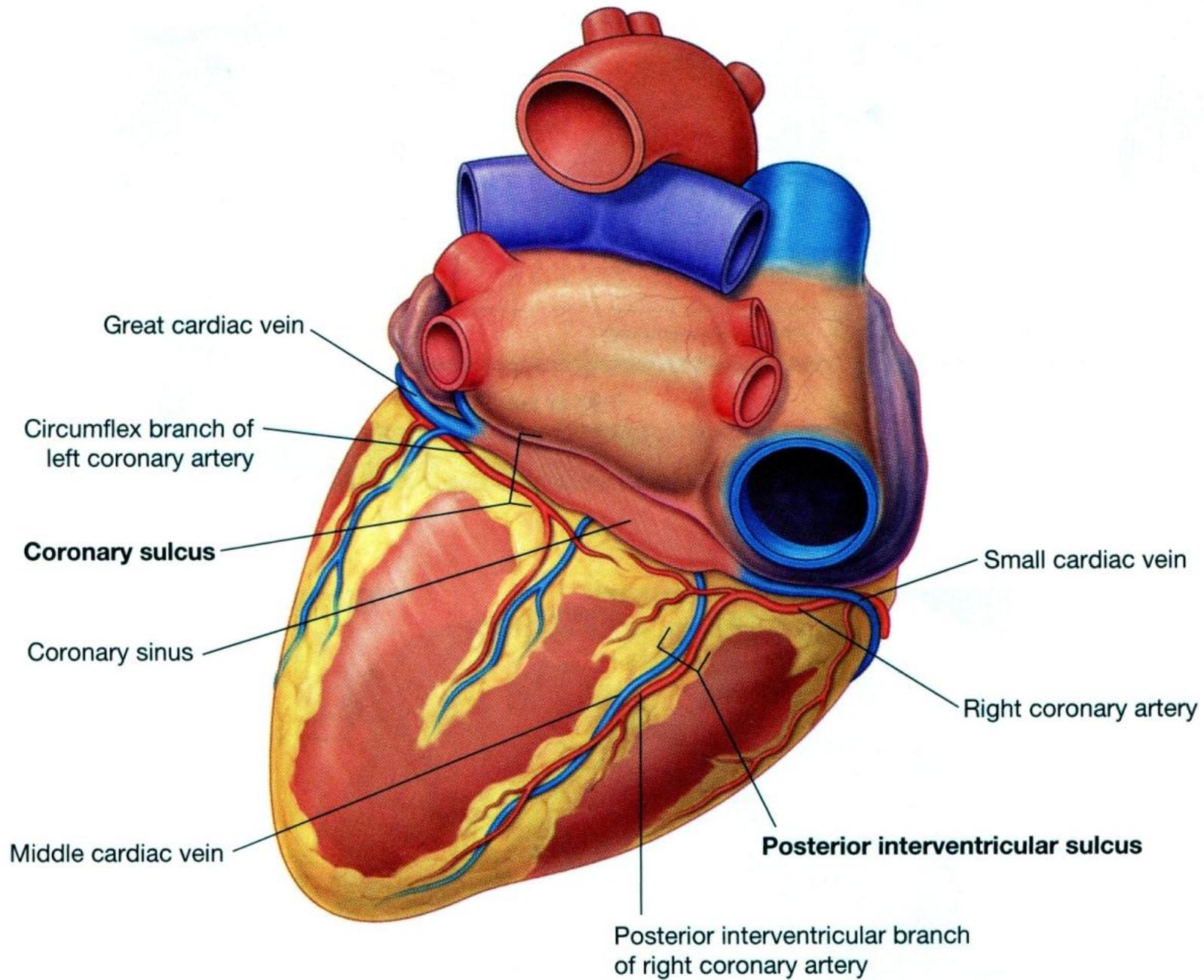


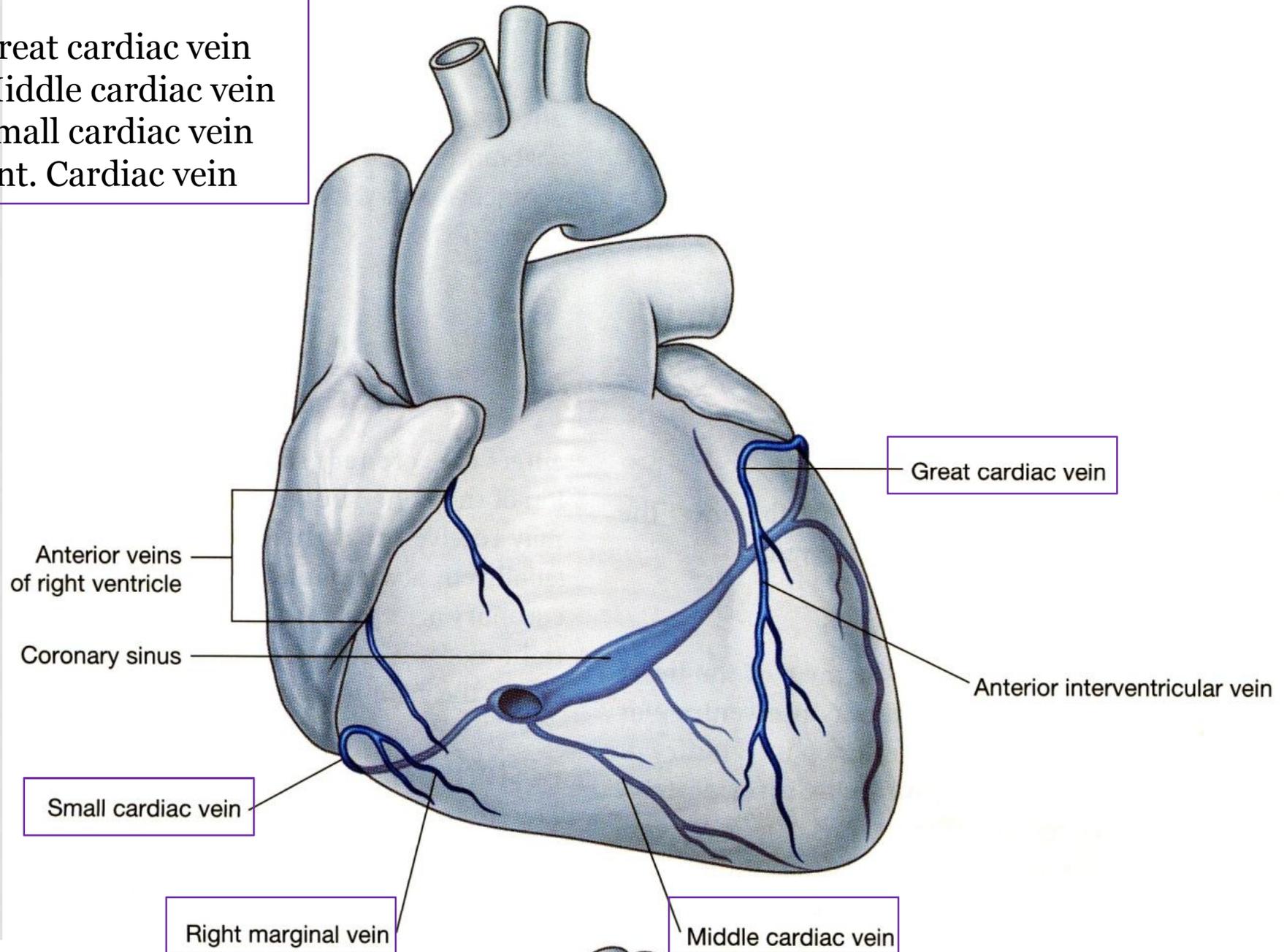
Fig. 20.11. Distribution of the left coronary artery.

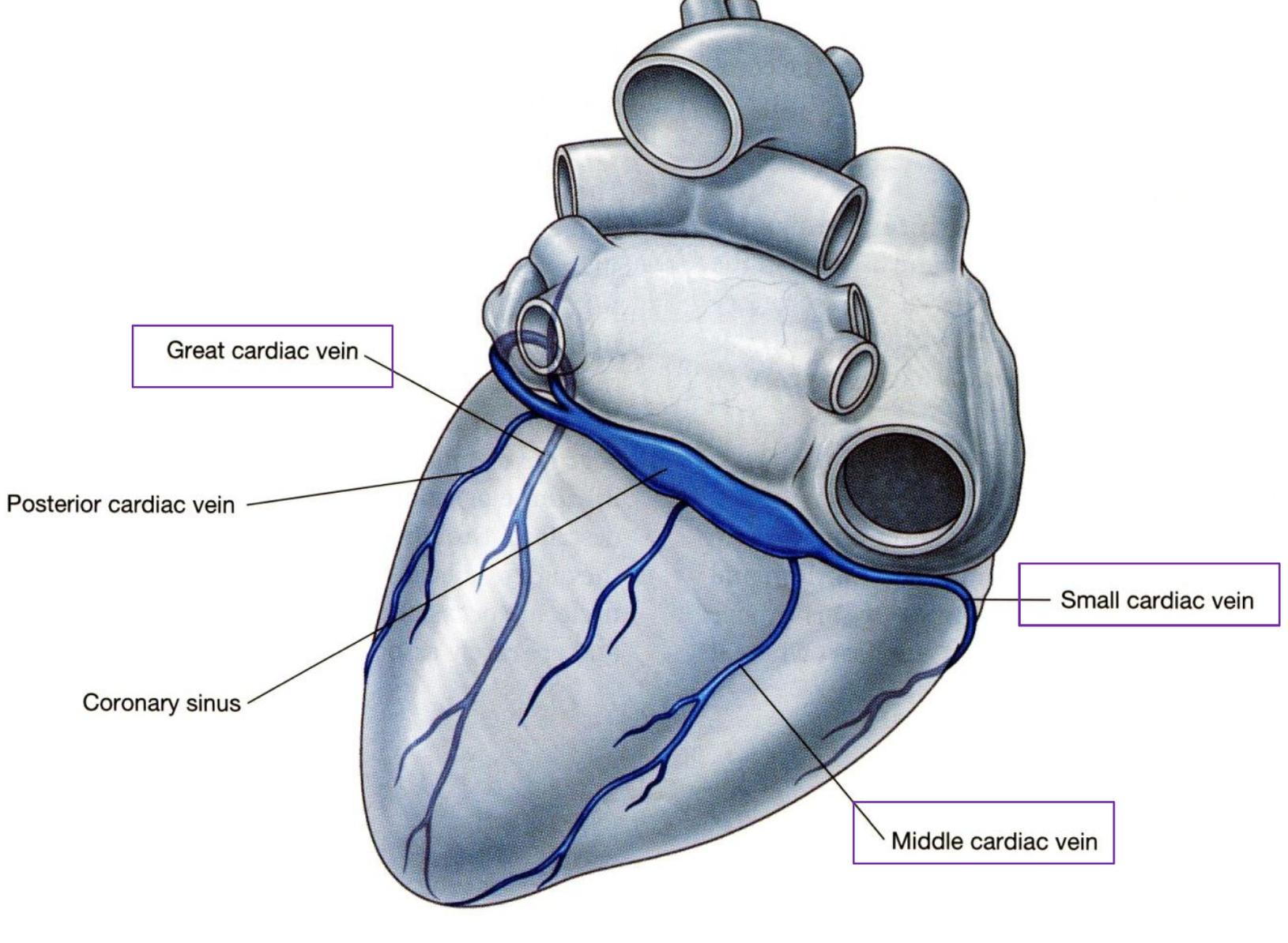




Cardiac veins:

Great cardiac vein
Middle cardiac vein
Small cardiac vein
Ant. Cardiac vein





Great cardiac vein

Posterior cardiac vein

Coronary sinus

Small cardiac vein

Middle cardiac vein

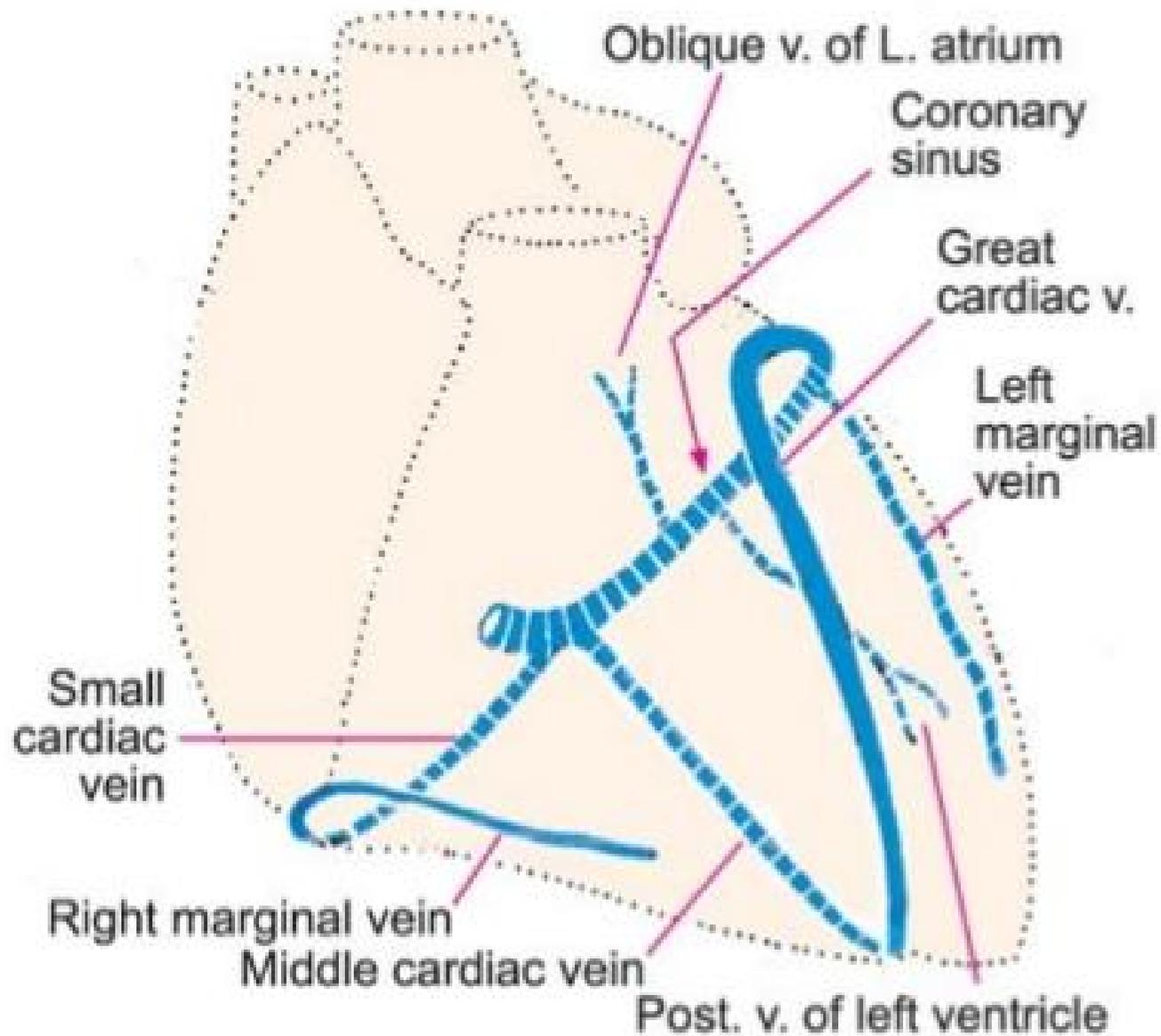
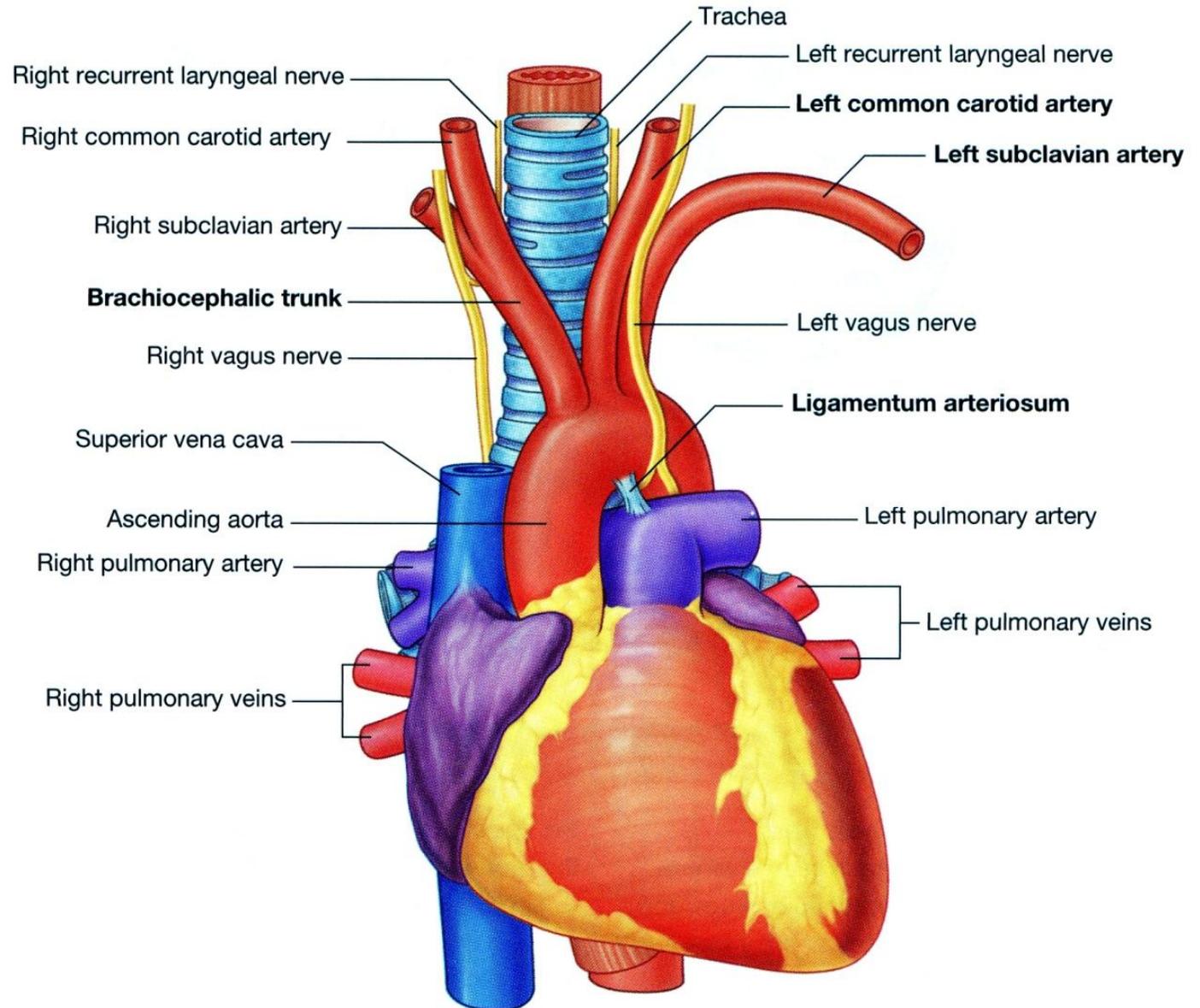


Fig. 20.14. Scheme to show the veins of the heart as seen from the front.

Aorta artery:

Ascending aorta
Arch of aorta
Descending aorta



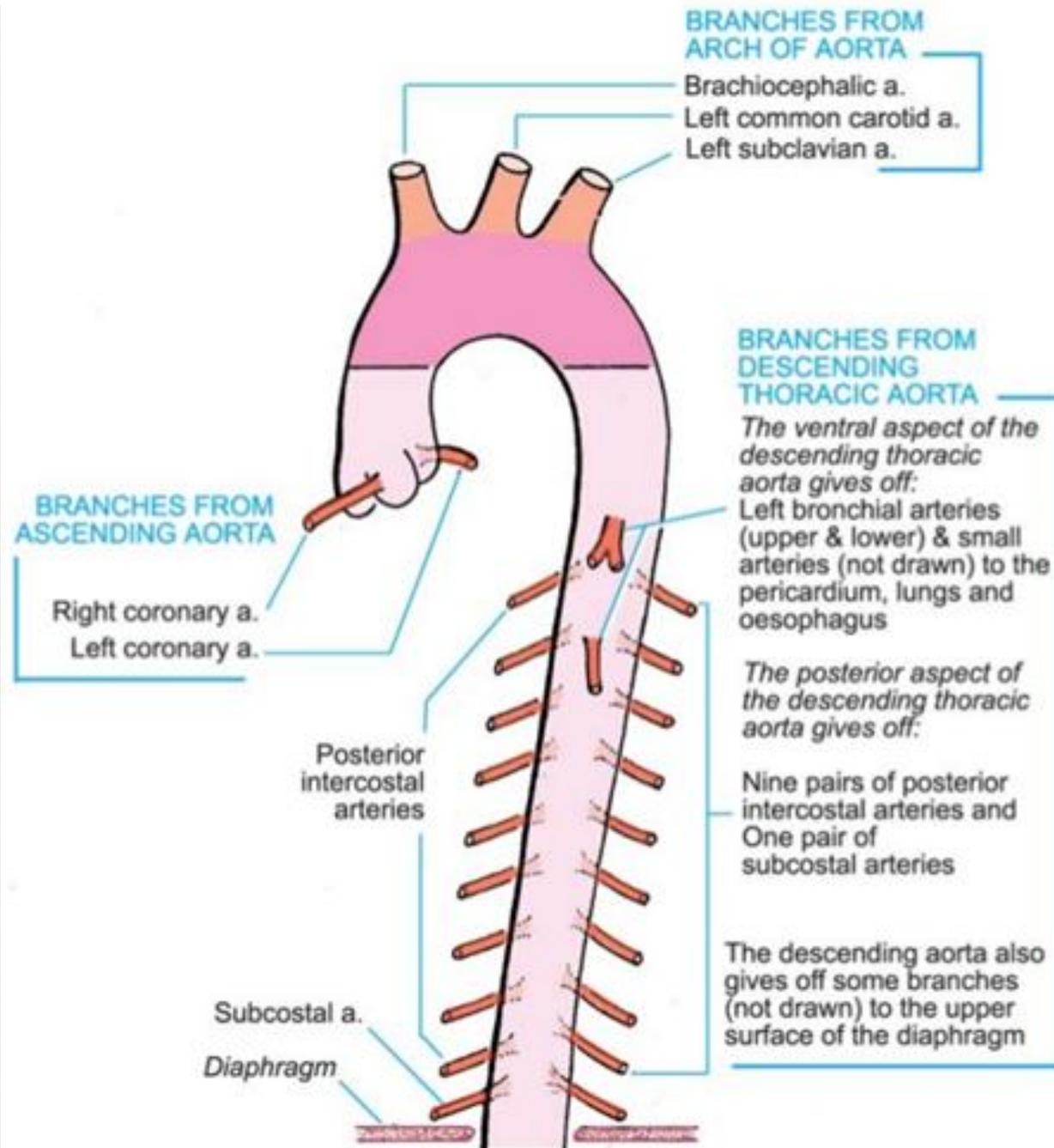


Fig. 20.8. Branches of the aorta in the thorax.

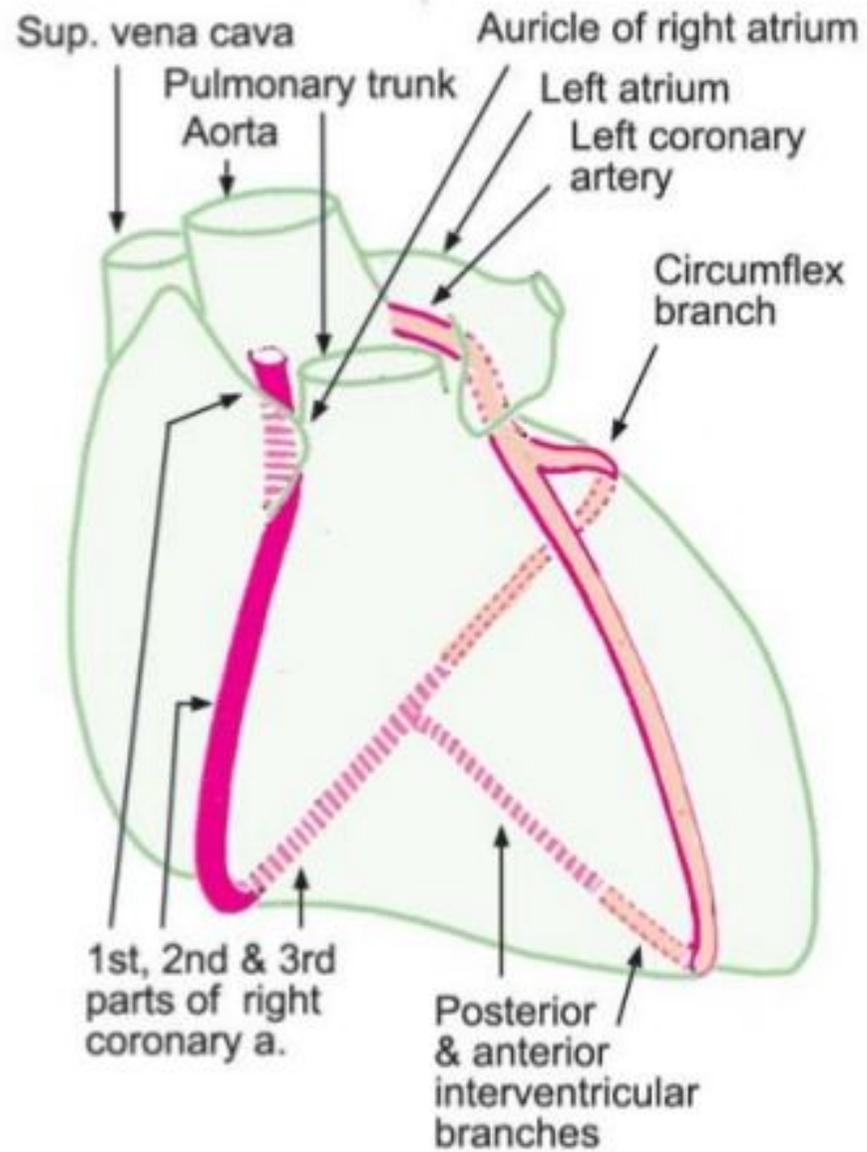


Fig. 20.9. Scheme to show the coronary arteries and their interventricular branches.

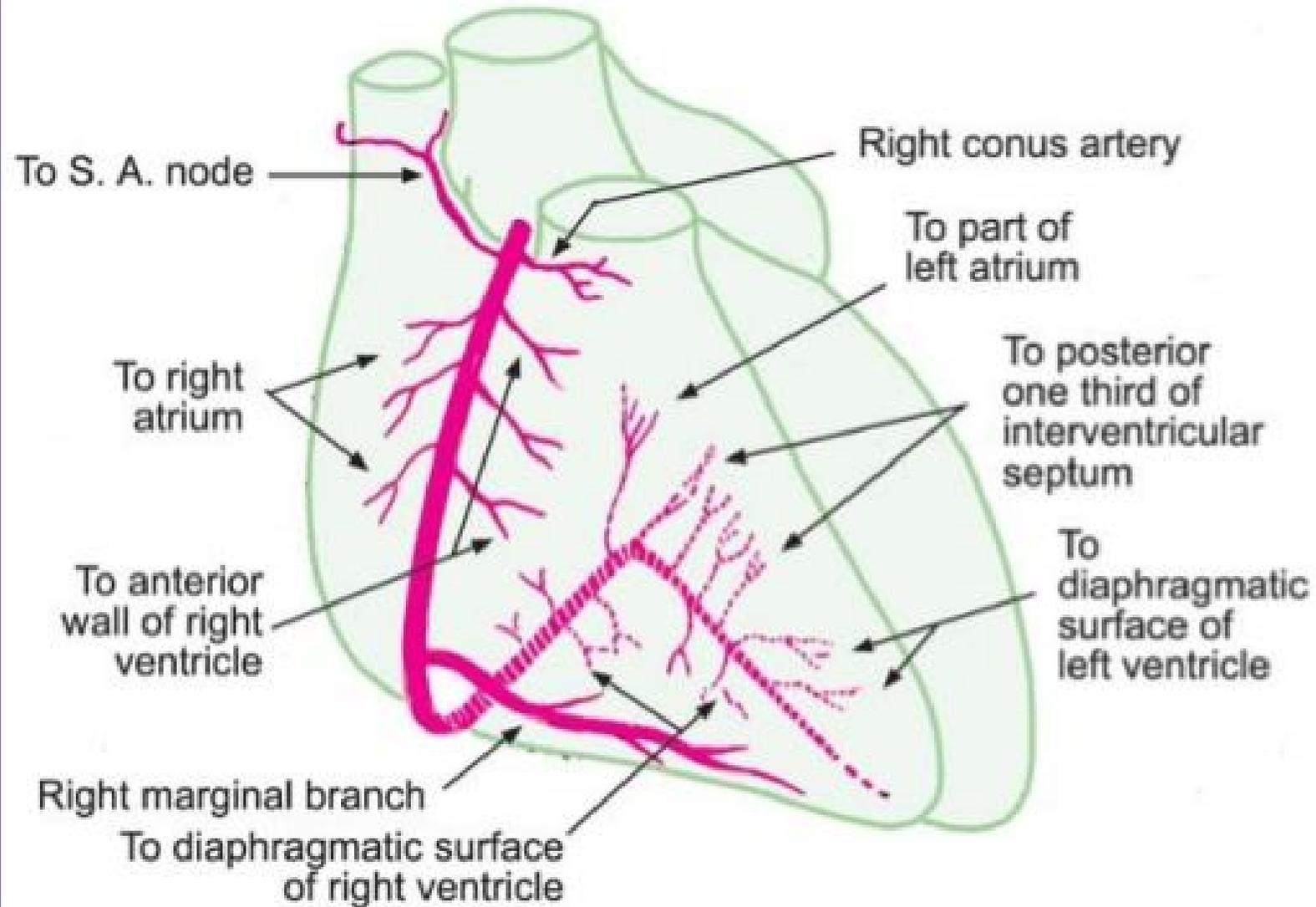


Fig. 20.10. Distribution of the right coronary artery.

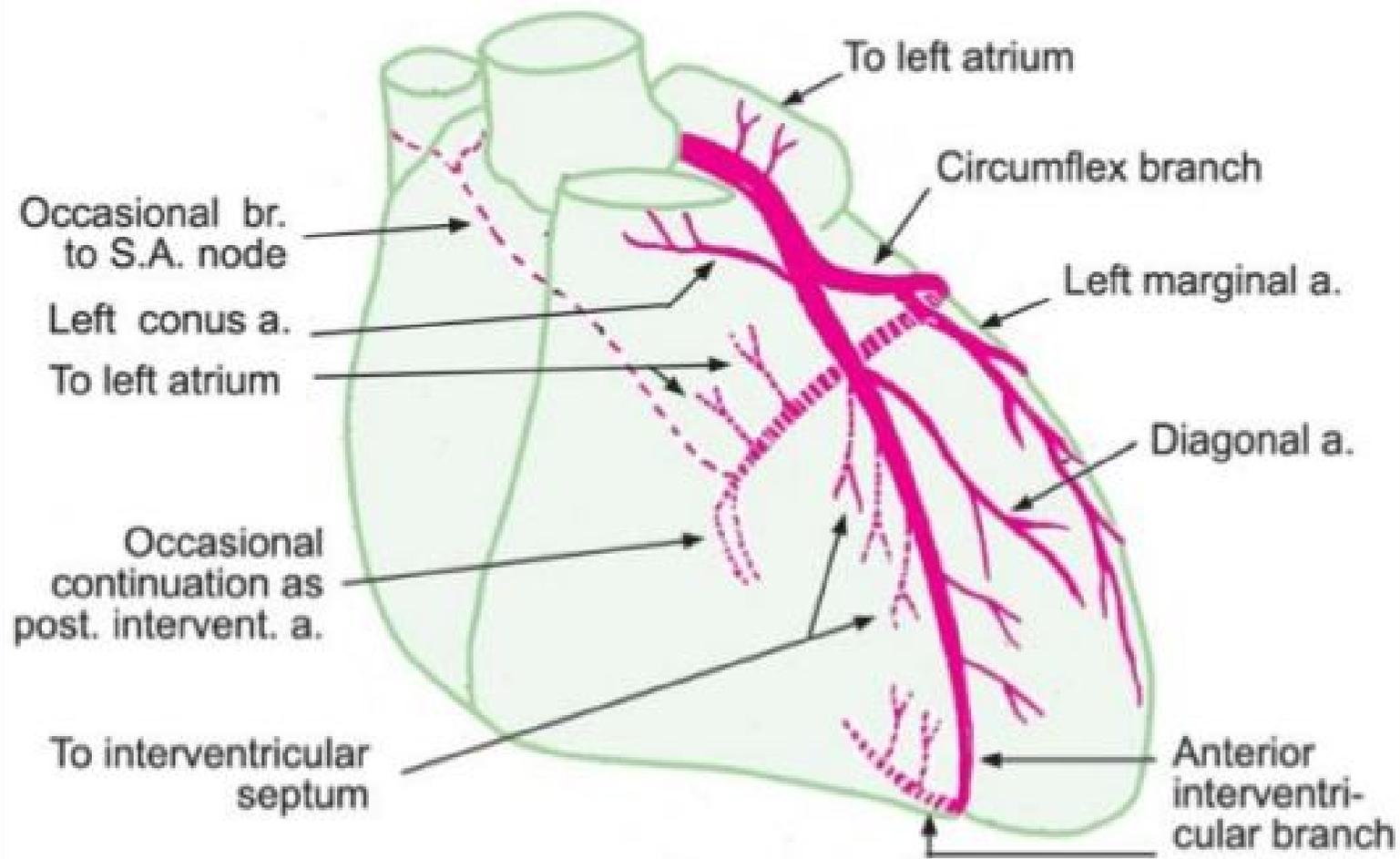


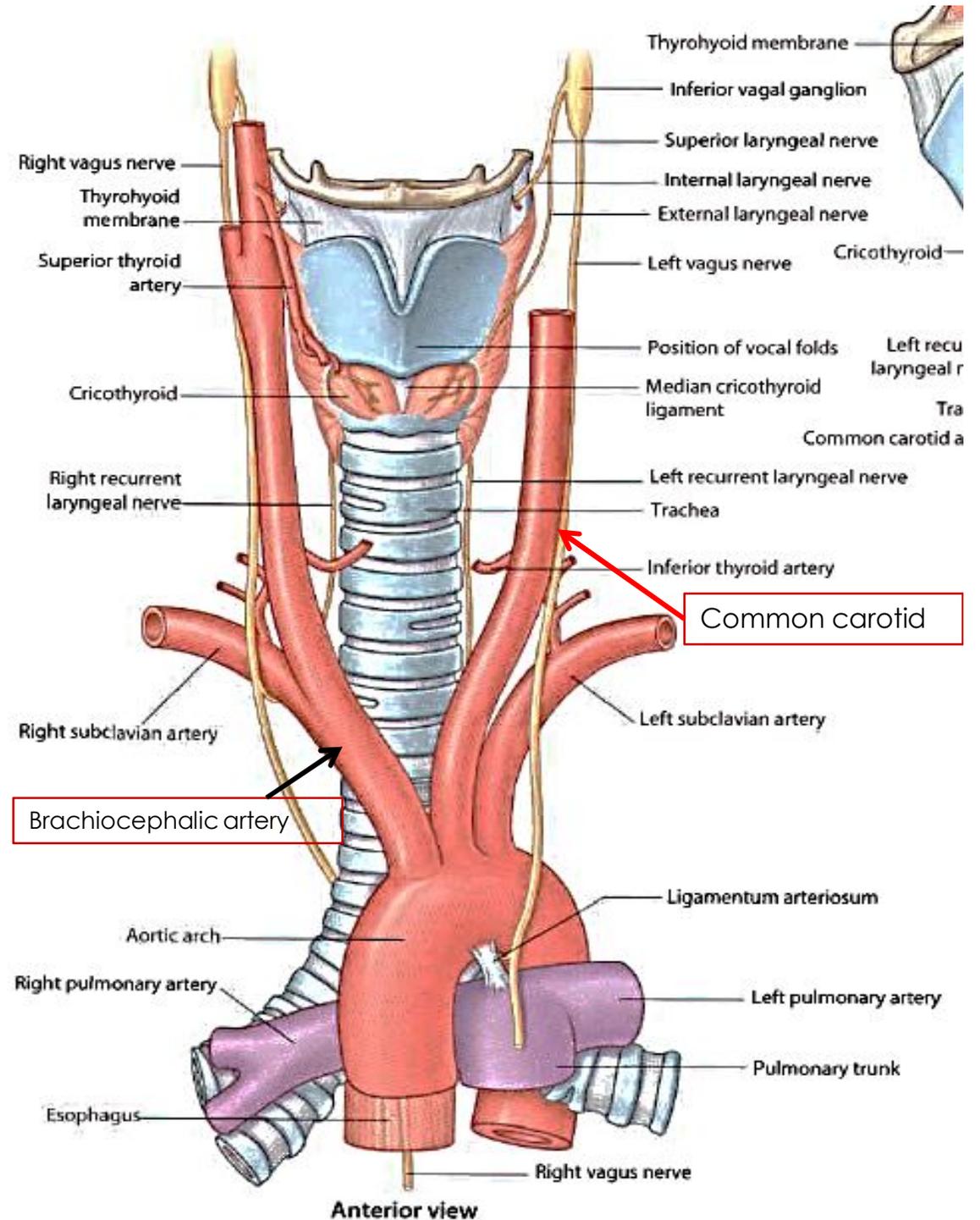
Fig. 20.11. Distribution of the left coronary artery.

Arch of aorta:

Brachiocephalic artery:

Rt. Common carotid
Rt. subclavian

Lf. Common carotid
Lf. subclavian



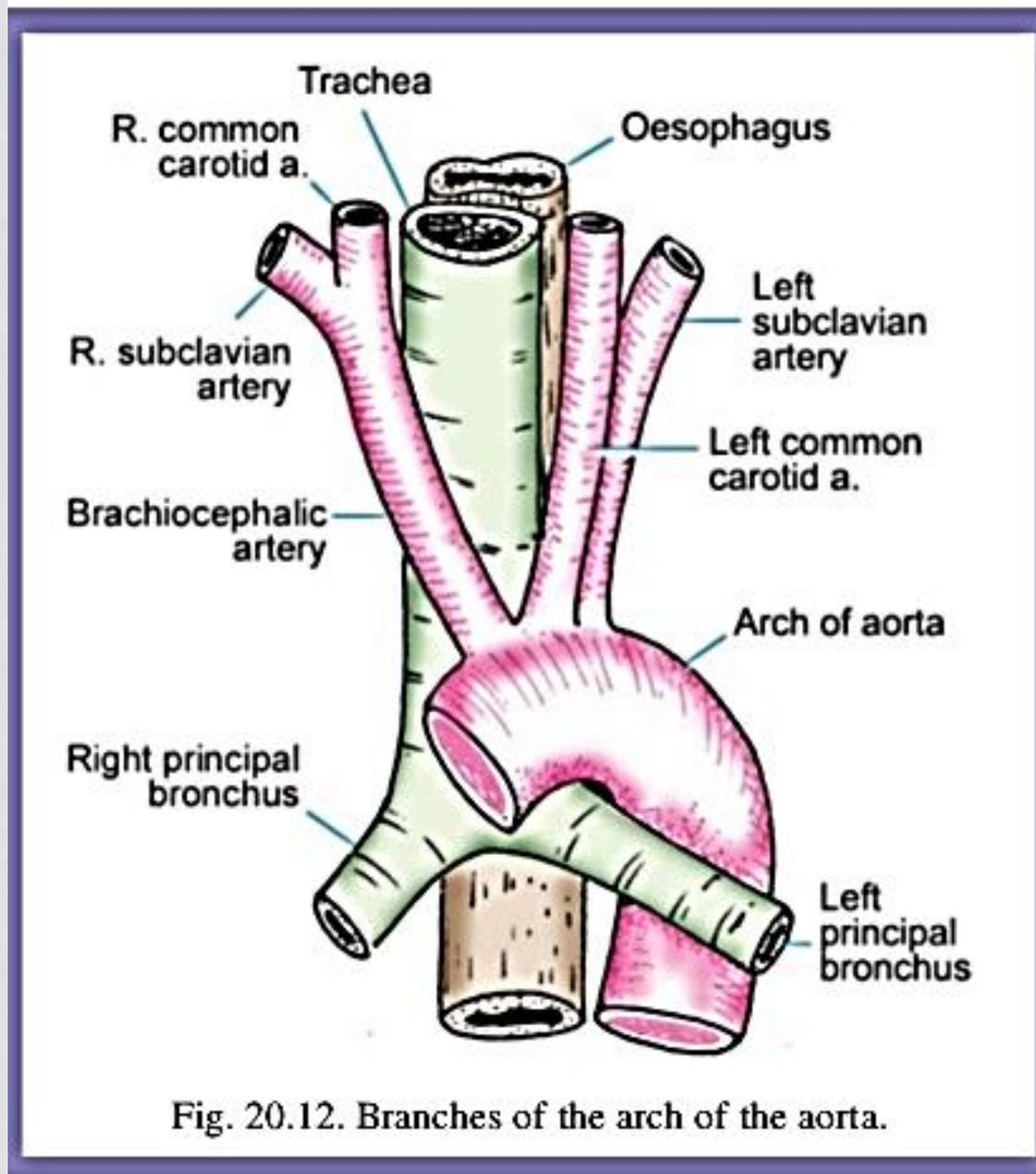


Fig. 20.12. Branches of the arch of the aorta.

Arch of aorta:

Brachiocephalic artery:

Rt. Common carotid:

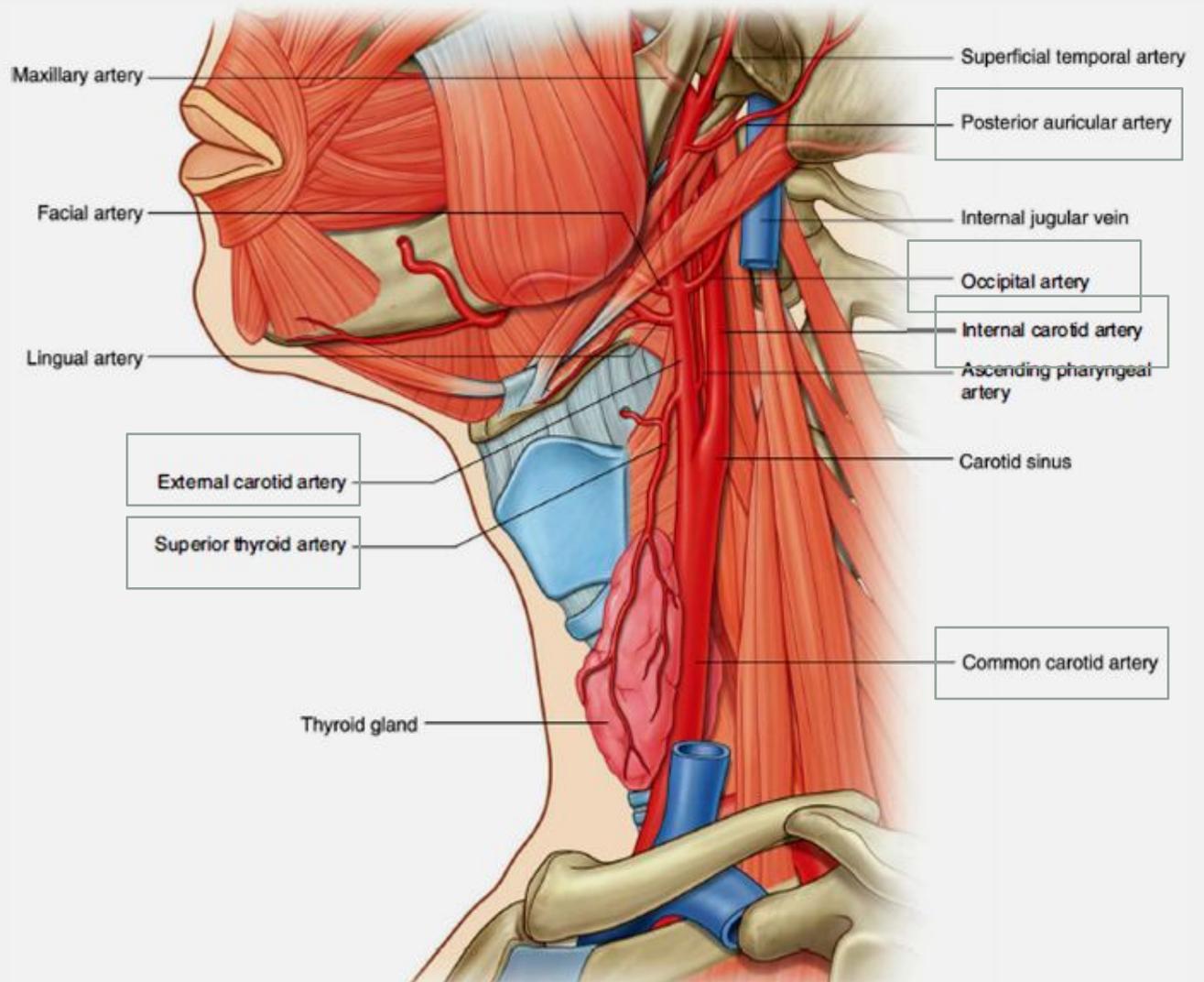
**External carotid
Internal carotid**

Rt. subclavian

Lf. Common carotid:

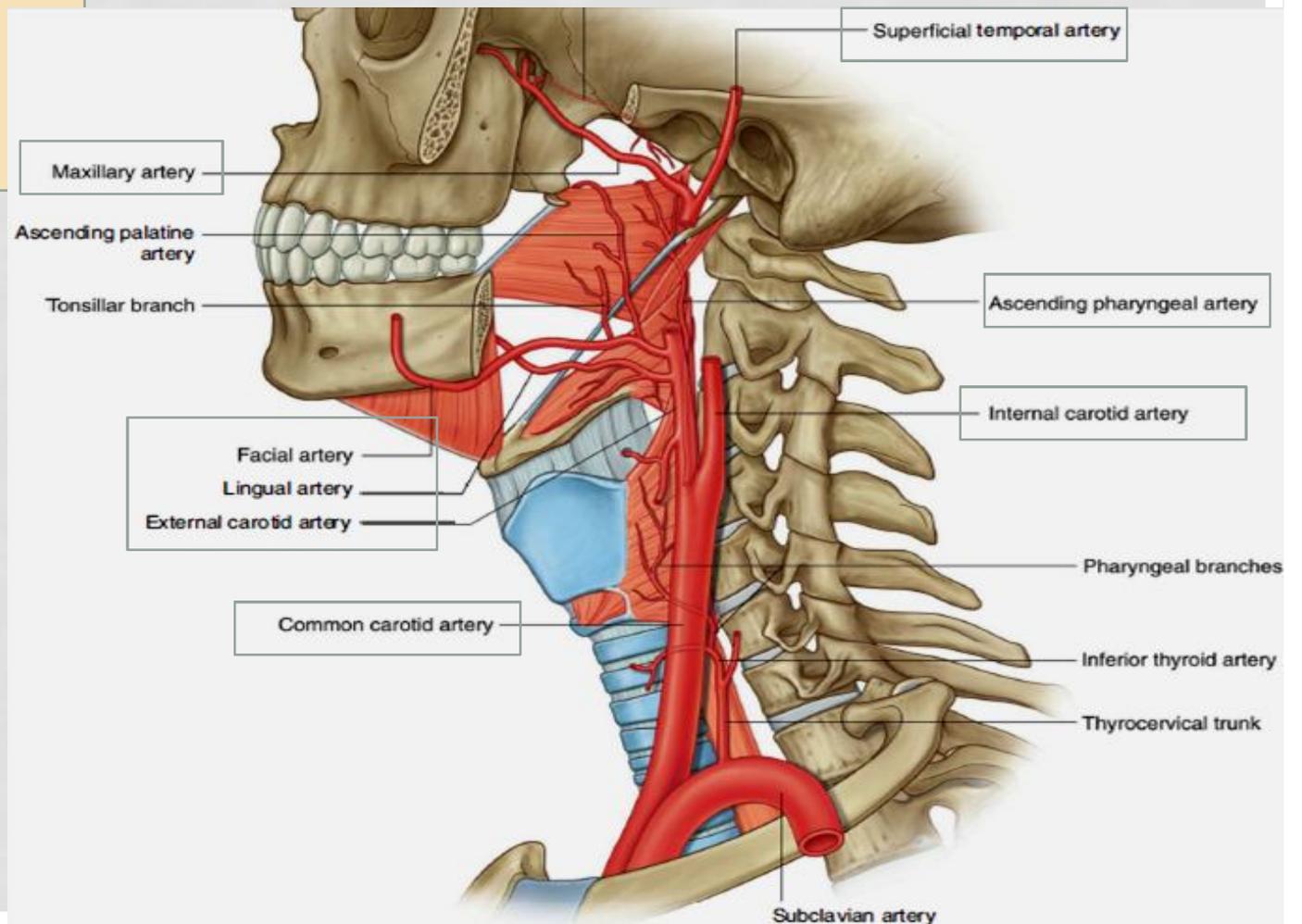
**External carotid
Internal carotid**

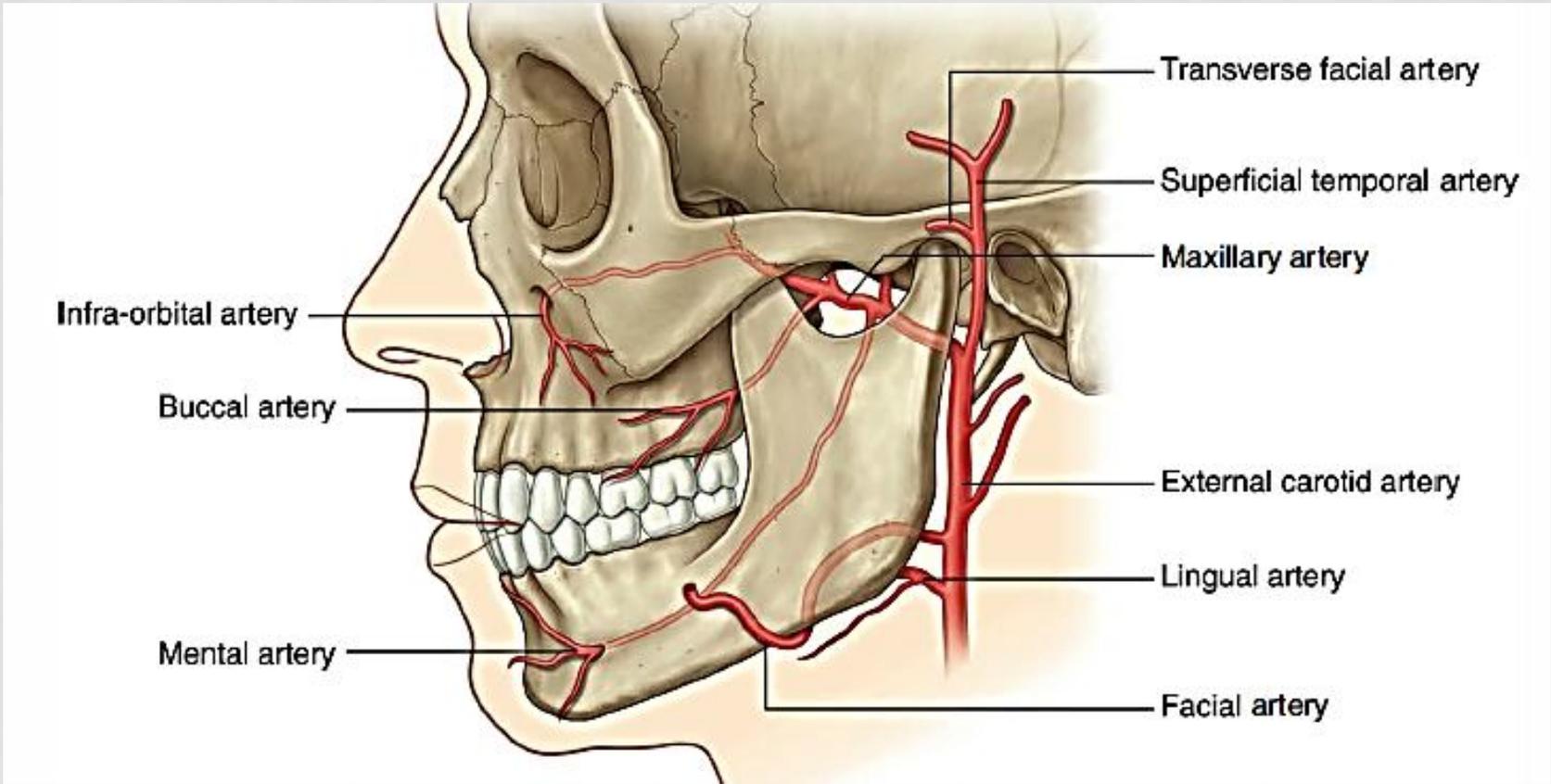
Lf. subclavian



External carotid artery:

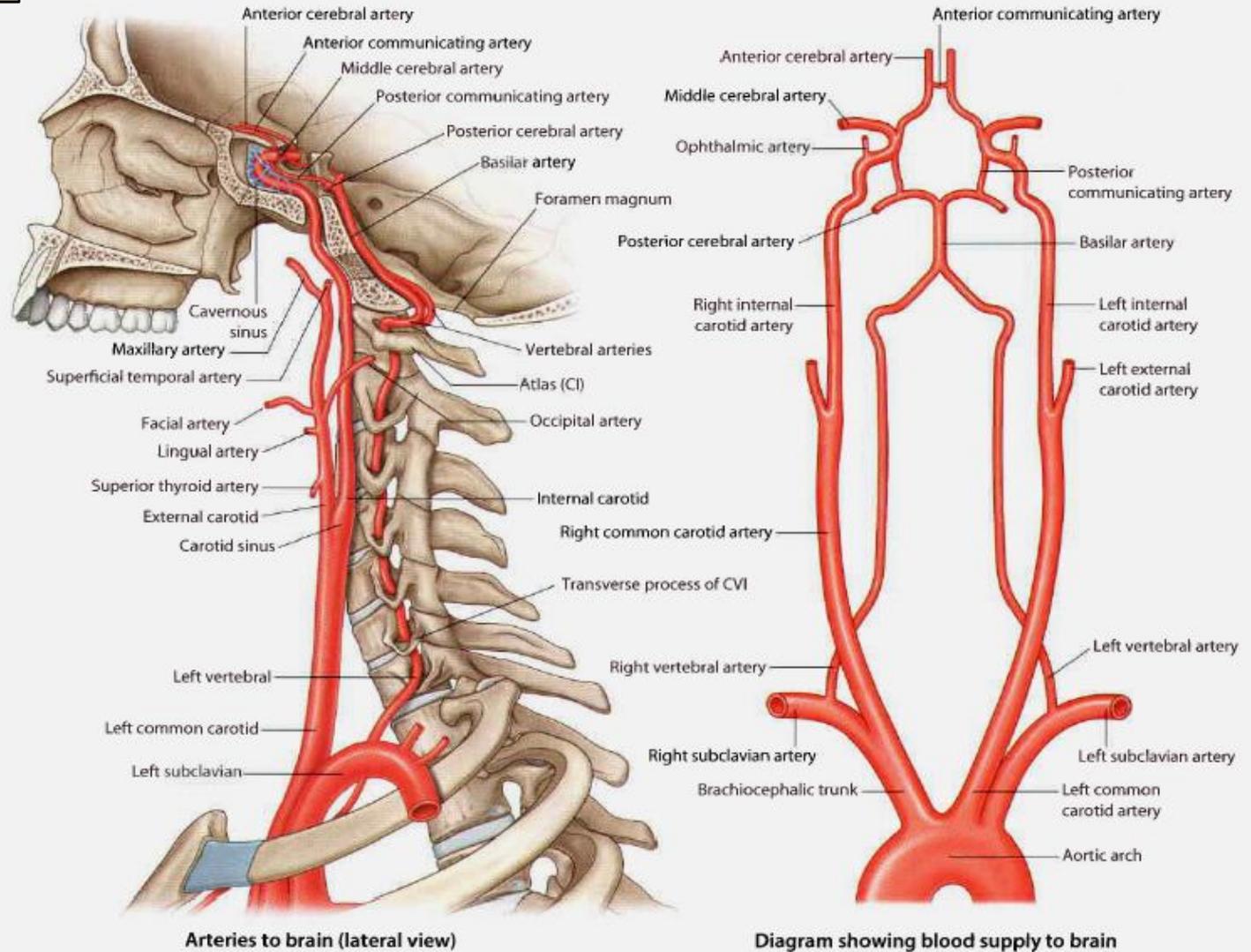
Sup. Thyroid
Ascending pharyngeal
Lingual
Facial
Occipital
Post. Auricular
Maxillary
Superficial temporal





Internal carotid:

Ophthalmic
Ant. Cerebral
Middle cerebral



The cerebral arterial circle of Willis

