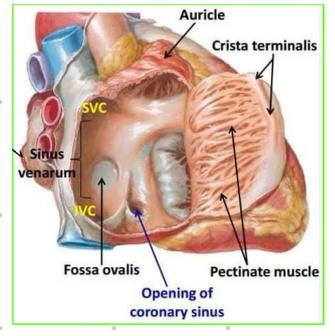


Anatomy lect 3

RA



- SVC, IVC, Coronary sinus

- Post wall → smooth, thin, open to SVC + IVC (poorly oxygenated)

- Ant. wall → Rough, muscular, pectinate ms

Separated
ext. by → Sulcus terminalis
internally → Crista terminalis

opening:-

SVC → Rt, 3rd CC. (superior post.)

IVC → Rt, 5th CC (inf. post)

تقریباً بیضی
الاستوی

Coronary Sinus → receiving most of cardiac veins. موقعها → Rt AV & IVC orifices بین

Inter atrial septum → has oval fossa (oval, thumbprint size depression)

there're numerous foramina of venae cordis minimae.

RV

ant. surface :- largest part
diaphragmatic: small part
inf. border: ^{تقیباً} entire border composed of RV

area of inflow → thick, muscular, trabeculae carneae AV orifice Lt 4th inter costal space.
area of outflow → smooth wall of conus arteriosus

Tendinous cord → free edges ^{حوالی} of ventricle of the ant, post, septal cusps

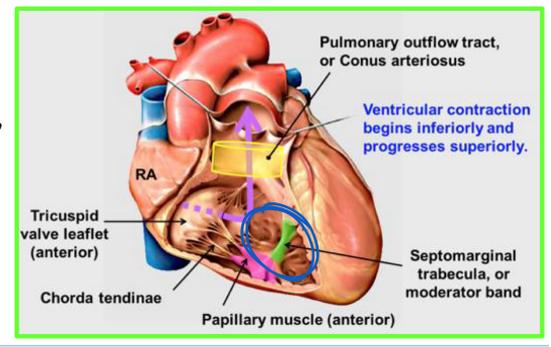
طالعة

Papillary ms :- 3 papillary ms

① ant papillary ms → largest, ant wall

② Post papillary ms → smaller, inf wall

③ Septa papillary ms → IV Septum, its tendinos cords attach to ant & septal cusps of tricuspid valve.



① muscular, ② membranous parts, strong, oblique, between Rt & Lt ventricles

سبب ضعفه منقبض أو ثلاثة أجزاء
RV أكثرها - سلك جدار الـ

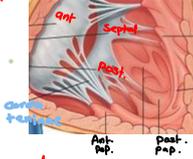
thick
bcz of
↑ BP in LV
(majority of septum)

Septomarginal trabecula (moderator band) → muscular bundle form inf IVS to base of ant. papillary muscle.
carry part of Rt branch of AV bundle
a part of conducting system → Ant papillary ms

Valves

Tricuspid valve

- Close Rt AV orifice during contraction
- 3 cusps:- ant & septal & post.
- attach to fibrous ring on orifice
- free margin → attach. to chordae tendineae

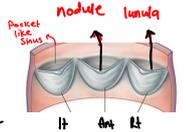


Semi-lunar

* on apex of infundibulum

* consists of :- Lt / Rt / ant. Semi-lunar

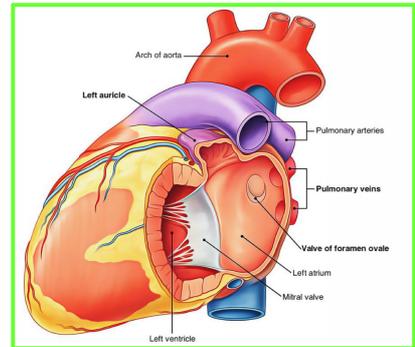
* margin of cusp → lunula.
thickened portion → nodule



LA

ant → Smooth

Lt auricle → possesses muscular ridge



Openings :- 4 Pulmonary veins (2 from each lung) posteriorly

- No valves in pulmonary veins.
- mitral valve guards the Lt AV orifice.

LV

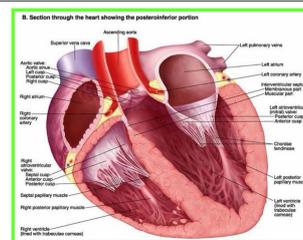
- has larger Ant + Post Papillary ms

- wall: Smooth, non muscular, outflow part "Superoanterior"

- Aortic vestibule → Aortic orifice + aortic valve

ascending 1st curv
aorta

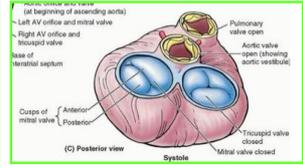
lies in Rt
posterosuperior part



Valves



Mitral (double leaflet)



- * opposite Lt 4th Stero Costal junction level
- * Guards Lt AV orifice
- * Consists of 2 cusps
 - ant
 - post
- ant → larger, between AV & aortic orifice

Aortic

⊛ Post. of Lt side of sternum 3rd intercostal space:

- * guards aortic orifice
- * Rt cusp → ant wall
- * Lt post → post wall
- حلق كل cusp يوجد :-
- aortic sinus (wall bulge)

- * ant Aortic sinus → origin of Rt CA
- * Lt post sinus → origin of Lt CA

مجانسة أبو العاصمي في بيتك على

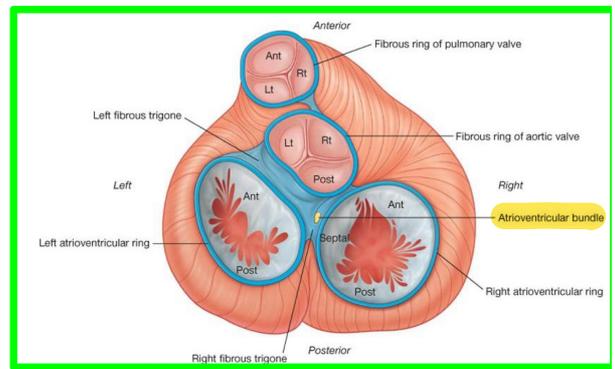
Cardiac Skeleton : ● Collection of dense, fibrous CT في 4 Rings
 و interconnecting areas in plane () Atria & ventricles

opening of pulmonary trunk / aortic orifice / 2 AV orifices → يحيط ●

Annulus Fibrosus & نسج

↓ نسج فيه

- AV bundle
- ⚡
- Single connection between the 2 groups of myocardium



Defects

Atrial septal :- ASD

A congenital anomaly of the interatrial septum, usually incomplete closure of the oval foramen, is an atrial septal defect (ASD).

The small openings, by themselves, cause no hemodynamic abnormalities and are, therefore, of no clinical significance and should not be considered forms of ASDs.

Ventricular Septal :- VSD

Membranous part is the common site of ventricular septal defects (VSDs), although defects also occur in the muscular part

❖ VSDs rank first on all lists of cardiac defects. Isolated VSDs account for approximately 25% of all forms of congenital heart disease.

❖ A VSD causes a left to right shunt of blood through the defect. A large shunt increases pulmonary blood flow, which causes severe pulmonary disease (hypertension, or increased blood pressure) and may cause cardiac failure.

