

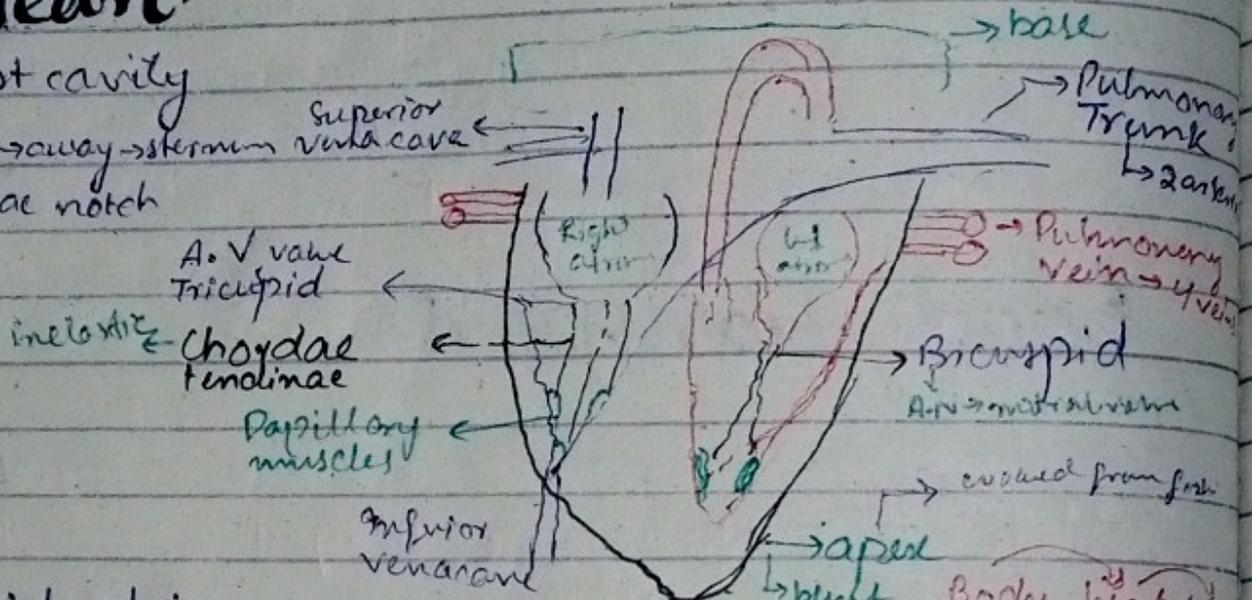
Circulatory Sys ^{→ mesoderm}

↓
Lymphatic (secondary)

Cardiac (Primary)
Vessels Blood Heart

Heart:

- Chest cavity
- 9cm away → sternum
- Cardiac notch

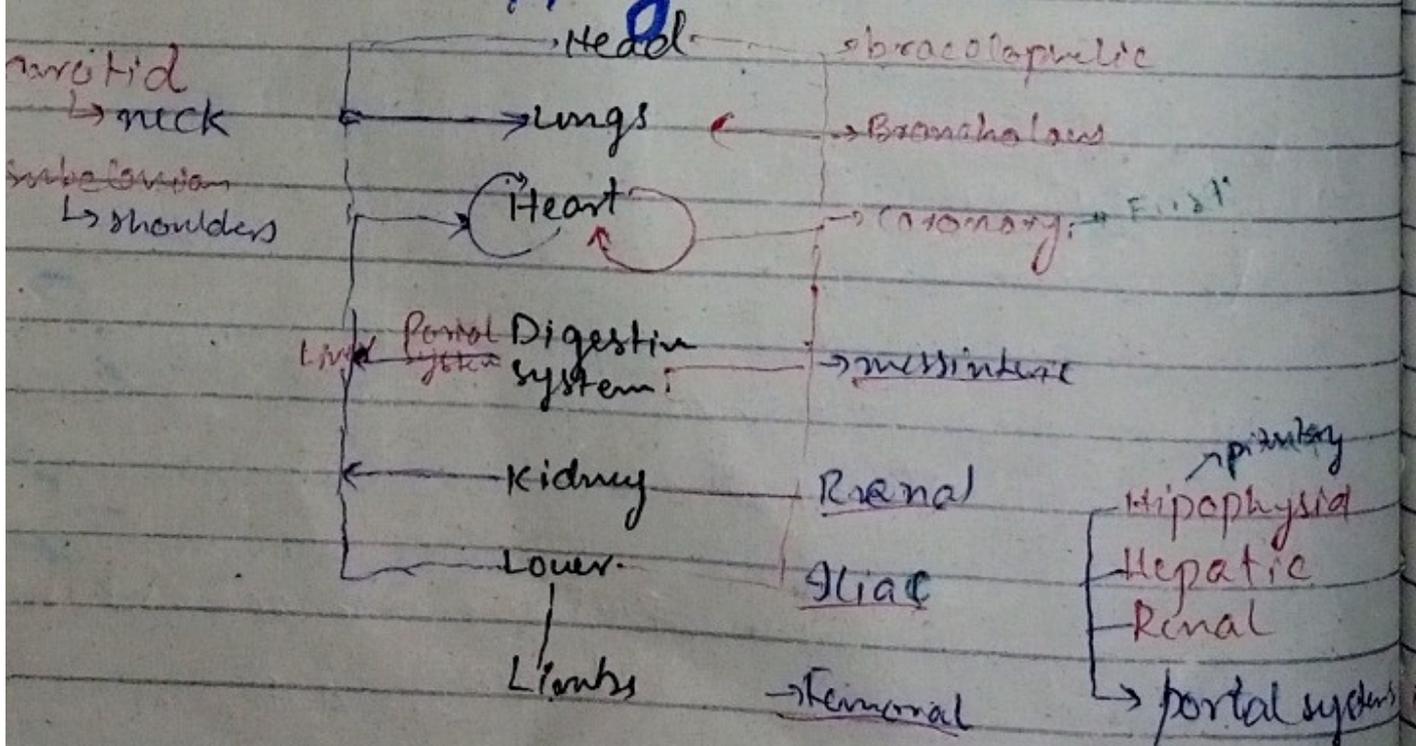


- Right atrium → 4 openings
 - ↳ 1 Superior vena cava
 - ↳ Coronary sinus
 - ↳ Tricuspid valve
 - ↳ Inferior vena cava

Body Heart loop
↳ double pump

@isamiqamar

Blood supply:



Cardiac Cycle:

→ 85ml

→ 0.8 sec

72 per minute

Contraction

→ Systole
Volume ↓
Pump

Relaxation

→ Diastole
Volume ↑
Fill up

Diastole:

Atrial:

Blood Fillup

Body → R.A

Lungs → L.A

A.V.V. → open → Dub

S.L.V. → close

} joint diastole
0.4 sec

Ventricular:

Blood fill up

R.A → R.V

L.A → L.V

A.V.V. → open

S.L.V. → close

Systole:

Atrial:

Blood pump

R.A → R.V

L.A → L.V

A.V.V. → open

S.L.V. → close

0.1 sec

Ventricular:

Blood pump

R.V → lung

L.V → Body

A.V.V. → close → Dub

S.L.V. → open

0.3 sec

Conducting System:

myogenic

SA Node

→ Pacemaker

→ (Autonomic nervous system)

→ Present at dorsal side of Right atrium

A.V Node

→ 0.1 sec delay

Present at the junction of Atria & Ventricles

Artrio Ventricular Bundles / Bundles of His.

→ b/w ventricles.

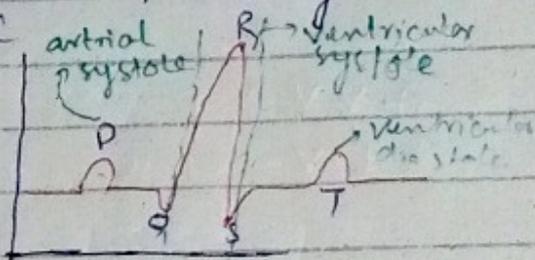
Purkinji fibers:

peripheral →

Electro cardiogram

→ Calculation & reading

→ 85 sec



Electro cardiograph

→ Device