# Cardiovascular System



#### 3 Layers of the Heart:

- Epicardium the outermost layer of the heart.
- Myocardium the middle layer of the heart, the contracting muscle.
- innermost layer of the heart, lines the inner chambers and the valves.

#### The Heart:

It is a cone-shaped organ in the mediastinal space. Which pumps oxygenated blood into the arterial system to supply capillaries and tissue. It pumps poor oxygenated blood from the venous system through the lungs to be reoxygenated. The heart is encased in a pericardial sac, which protects it, lubes and holds about 10-20 ml of pericardial fluid. The sac has 2 layers:



#### Chambers of the Heart:

- Right Atrium carries deoxygenated blood from the body via superior and inferior vena cava.
- Left Atrium carries oxygenated blood from the pulmonary veins.

Right Ventricle- carries

blood from the right atrium and pumps the lungs pulmos and pumps it he systemic circuit

# Valves of the Heart:

3 .

on the right sheart.

om the aorta.

- Mitral /Bicuspid Valve located on the left side of the heart.
- Pulmonic Valve between the right ventricle and pulmonary artery.
- Aortic Valve- between the ventricle and the aorta.



#### Bleed flow through to the

- 1. Blood for Wena cava and
- enters the right atrium the heart.
  - valve into the right ventricle chamber of the heart.
- Then the blood moves through the pulmonary valve into the pulmonary artery.
- The blood re-enters the heart from the lungs through the pulmonary veins, and travel into the left atrium.
- The blood then passes through the mitral valve and into the left ventricle chamber of the heart.
- The blood then moves through the aortic valve and into the aorta.

#### Electrical conduction of the heart:

SA Node: 1st pacemaker of the heart and initiates contraction at 60-100 bpm.

AV Node: 2nd pacemaker of the heart that receives impulses from the SA node initiates and sustains impulses at 40-60 bpm.

Bundle of Ris: It is the continuation of the AV node and branches into the bundle of his branches which goes into the purkinje fibers.

Purkinje fibers: network of conducting stands beneath the ventricular endocardium. They can act as a pacemaker when the SA and AV fail as pacemakers. It can sustain 20-40 bom.

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**Richard Bailey** 

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