

# CARDIOVASCULAR SYSTEM : ANATOMY & PHYSIOLOGY

## FUNCTION OF CIRCULATION

Delivers O<sub>2</sub>, nutrients, hormones and antibodies to organs, tissues and cells.  
Removes the end product of cellular metabolism

## FUNCTION OF THE HEART

Pumps oxygenated blood into the arterial system to supply capillaries and tissue.  
Pumps oxygen poor blood from the venous system through the lungs to be reoxygenated.

## ANATOMY OF THE HEART

Cone shaped organ located in the mediastinal space.  
The pericardial sac encases the heart and protects it, lubricates and holds 5-20 ml of pericardial fluid. This has two layers.

- the parietal pericardium which is the outer membrane
- the visceral pericardium is the inner membrane attached to the heart.

### CONSISTS OF 3 LAYERS

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

### 4 CHAMBERS

- Right atrium: carries deoxygenated blood from the body via superior and inferior vena cava.
- Right ventricle: carries blood from the right atrium and pumps it into the lungs through the pulmonary artery.
- Left atrium: carries oxygenated blood from the pulmonary veins.
- Left ventricle: carries oxygenated blood from the left atrium and pumps it into the systemic circuit through the aorta.

### 4 VALVES

Two atrioventricular valves that close at the beginning of ventricular contraction. They prevent blood from flowing back into the atria.

- Tricuspid valve : on the right side of the heart
- Bicuspid valve: on the left side of the heart

Two semilunar valves that prevent blood from flowing back into the ventricles during relaxation

- Pulmonary semilunar valve: between the right ventricle and pulmonary artery
- Aortic semilunar valve: between the ventricle and the aorta.

## CORONARY ARTERIES

- Right main coronary artery: supplies the right atrium and ventricle, the inferior left ventricle, posterior septal wall, SA and AV nodes.
- Left main coronary artery: consists of two main branches: left anterior descending which supplies blood to the left ventricle and the ventricular septum, and circumflex arteries which supply blood to the left atrium and the lateral/posterior aspects of the left ventricle.

## BLOOD FLOW OF THE HEART

- From the superior and inferior vena cava oxygen poor blood goes to the right atrium through the tricuspid valve.
- Right atrium to the right ventricle
- Right ventricle to the pulmonary valve
- To the pulmonary trunk and arteries into the lungs CO<sub>2</sub> is lost and O<sub>2</sub> is gained in the pulmonary capillaries.
- O<sub>2</sub> rich blood enters the pulmonary veins to the left atrium.
- Blood travels through the bicuspid valve and enters the left ventricle.
- Blood moves through the aortic valve and travels through the aorta to the systemic circuit.



## Sectional Anatomy of the Heart

### ELECTRICAL CONDUCTION

- SA node: pacemaker of the heart and initiates contraction at 60- 100 BPM.
- AV node: receives impulses from the SA node, initiates and transmits impulses at 40-60 BPM.
- Bundle of His: continuation of the AV node and branches into the two bundle branches which terminate in the Purkinje fibers.
- Purkinje fibers: network of conducting strands beneath the ventricular endocardium. They can act as a pacemaker when the SA and AV fail as pace makers. They can sustain at 20-40 BPM.

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**W. J. Leverich**

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