# CARDIOVASCULAR SYSTEM : ANATOMY & PHYSIOLOGY

#### **FUNCTION OF CIRCULATION**

Delivers 02 , nutrients, hormones and antibodies to organs, tissues and cells Removes the end product of cellular metabolism

#### FUNCTION OF THE BEART

Pumps oxygenated blood into the arterial system to supply capitlaries 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 viscoral pericardium is the inner membrane attached to the heart.

#### EDNSTATS OF 3 LATERS

- 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.

#### A CHAMBEES

- Right strium: carries decaygenated 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 strium: 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 sorts.

#### A VALVEY

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

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

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

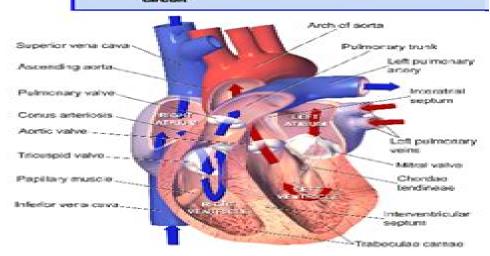
- Pulmonic semilunar valve: between the right ventricle and pulmonary artery
- Aortic semilurar valve: between the ventricle and the aortic.

## CORONARY ARTERIES

- Right mein coronery artery: supplies the right atrium and ventricle, the inferior left ventricle, posterior septal wall, SA and AV nodes.
- Left main ocronary 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 leteral/posterior aspects of the left ventricle.

#### BLOOD FLOW OF THE HEART

- From the superior end inferior vens cars oxygen poor blood goes to the
- 2. Right atria through the tricuspid valve
- 3. Right ventricle to the pulmonery valve
- To the pulmonary trunk and arteries into the lungs Co2 is lost and 02 is gained in the pulmonary capitaries
- 5. O2 rich blood enters the pulmonary veins to the left strium
- Blood trevels through the bicuspid valve and enters the left ventricle
- Blood moves through the sortic valve and travels through the sorts to the systemic choult



#### Sectional Anatomy of the Heart

## ELECTRICAL CONDUCTION

- BA node: pacemaker of the heart and initiates contraction at 80-100 SPM.
- AV : receives impulses from the SA node initiates and sustains impulses at 40-80 BPM
- Bundle of his: continuation of the AV node and branches into the the bundle branches which terminate in the purking fibers
  - Puridinje fibers: network of conducting strands beneath the ventricular endocardium. They can act as a pacemaker when the SA and AV fall as pace makers. They can sustain at 20-40 BPM



# **Cardiologist Study Guide**

**JR Anderson** 



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