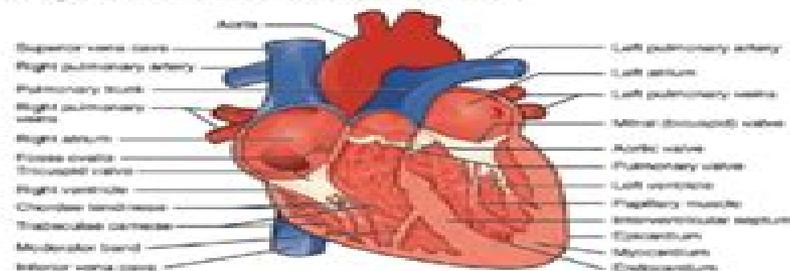


Cardiovascular System and Physiology

ANATOMY

Heart

- ✓ Hollow, muscular organ
 - ⇒ To accommodate blood
 - ⇒ Muscular since it acts as pump to draw in and out blood
- ✓ About the size of a fist
- ✓ Weight – 250 – 300 g
 - ⇒ Females – 250 g
 - ⇒ Males – 300 g
- ✓ Innervated by C3 – T4
- ✓ Rotated sagittally – (R) surface is more anterior than (L) surface of the heart
- ✓ 2/3 of the surface is located to the left



Internal Structures of the Heart

- ✓ **Apex**
 - ⇒ **Point of maximal impulse (PMI)** – where pulse is heard the loudest
 - ⇒ Located at 5th intercostal space in the midclavicular line
 - Able to clinically estimate if patient has cardiomegaly when PMI goes beyond 5th ICS
 - ⇒ Tilted downward, forward and to the left
 - ⇒ Primarily composed of (L) ventricle
- ✓ **Base** – comprised of (L) and (R) atrium (L > R)

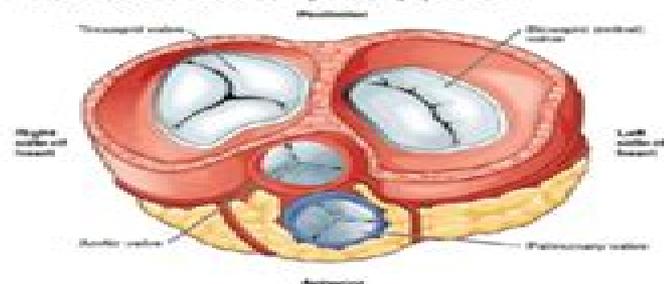
Aorta

- ✓ Largest artery
- ✓ Passageway of blood from heart to the systemic circulation
- ✓ Segments
 - ⇒ Ascending
 - ⇒ Arches
 - Brachiocephalic artery
 - (R) Common carotid artery
 - (R) Subclavian artery
 - (L) Common carotid artery
 - (L) Subclavian artery
 - ⇒ Descending
- ✓ **Ligamentum Arteriosus**
 - ⇒ Scar tissue
 - ⇒ Remnant of **ductus arteriosus**
 - Closes within 2 weeks of life
 - ⇒ Support between the pulmonary trunk and aorta

Right Atrium

- ✓ Opening of superior vena cava
- ✓ **SA node**
 - ⇒ Located inferolateral surface to superior vena cava
 - ⇒ Pacemaker of the heart

- ✓ **Coronary sinus** – opening where blood from coronary articulation drains into
- ✓ **Fossa Ovalis**
 - ⇒ Scar tissue
 - ⇒ Adjacent to the coronary sinus
 - ⇒ Remnant of **foramen ovale**
 - Passageway from (R) atrium → (L) atrium for fetal circulation
 - Pulmonary circulation is by-passed
 - Found in fetal circulation → will close upon birth
- ✓ **AV node**
 - ⇒ Sends signals from atrium to ventricle
 - ⇒ Located at the distal part of (R) atrium



Right Ventricle

- ✓ Opening of pulmonic valve
- ✓ **Tricuspid Valve** – has 3 cusps/leaflets
- ✓ **Chorda Tendinae**
 - ⇒ "Heartstrings"
 - ⇒ Supports the cusps
 - ⇒ Held in position by **papillary muscle**
 - ⇒ Closed valves – chorda tendinae is taut, papillary muscle is contracted
- ✓ **Trabecular Carneae** – muscle that forms the ridges of ventricles
- ✓ **Pectinate muscles** – muscle that forms the ridges of atrium
- ✓ **Mitral/Bicuspid valve** – valve that has 2 cusps/leaflets located in left ventricle

LAYERS OF THE HEART

Pericardium

- ✓ Protects and surrounds the whole heart
- ✓ Ensures movement of the heart
- ✓ **Fibrous**
 - ⇒ Inelastic, thin sheath of connective tissue
 - ⇒ Serves as an anchor
 - ⇒ Protects the heart
 - ⇒ **Prevents overfilling** – regulates blood flow
- ✓ **Parietal** – extra protection
- ✓ **Visceral**
 - ⇒ AKA **epicardium**
 - ⇒ Houses coronary vessels
- ✓ **Pericardial fluid**
 - ⇒ Acts a lubrication for smooth movement
 - ⇒ ↓ PF – parietal wall meets visceral → friction → pericarditis (chest pain)

Myocardium

- ✓ Muscular layer
- ✓ Responsible for the pumping action

Anatomy And Physiology Workbook Cardiovascular System

Puja Mehta

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