

CARDIOVASCULAR SYSTEM

The Pulmonary Circuit

Carries blood to and from gas exchange surfaces of lungs

The Systemic Circuit

Carries blood to and from the body

3 types of blood vessels

Arteries- Carry blood away from heart

Veins- Carry blood to heart

Capillaries- Networks between arteries and veins

HEART WALL AND TISSUE

Layers of the heart wall

1. Epicardium (Visceral pericardium)

Covers surface of heart. Serous membrane consisting of simple squamous epithelium (these epithelial cells produce a lubricating fluid that is released between layers providing a slippery, non-adhesive and protective surface) and underlying connective tissue (attaching to myocardium)

PERICARDIUM

Pericardium - double-walled sac (pericardial sac) that is made of fibrous tissue consisting of collagen fibers which enclose the heart and stabilize it allows heart to beat without friction, provides room to expand, yet resists excessive expansion anchored to diaphragm inferiorly and sternum anteriorly

Parietal pericardium

– outer wall of sac. Superficial fibrous layer of connective tissue. A deep, thin serous layer. Not a heart wall layer but is

continuous with serous membrane of the visceral pericardium.

Visceral pericardium

(epicardium) – heart covering Serous lining of sac turns inward at base of heart to cover the heart surface

Pericardial cavity

- space inside the pericardial sac filled with 5 - 30 mL of pericardial fluid. Pericarditis – inflammation of the membranes. Painful friction rub with each heartbeat

2. Myocardium

Middle, muscular layer forming atria and ventricles. Contains cardiac muscle tissue, blood vessels, and nerves. Concentric muscle tissue layers. Form a figure-eight around the atria. Superficial muscle layers wrap both ventricles. Deep muscle layers form figure-eight around ventricles

3. Endocardium

Covering inner surfaces of heart, including valves. Composed of simple squamous epithelial tissue and underlying areolar (loose connective) tissue. Endothelium of heart is continuous with the endothelium of the attached great blood vessels

ANATOMY OF THE HEART

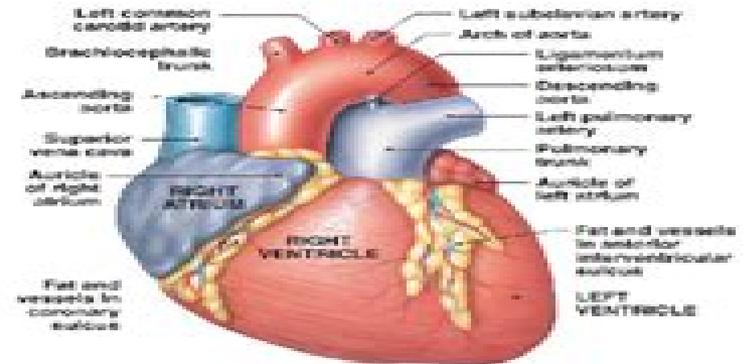
Characteristics of Cardiac Muscle Cells

Small size, many mitochondria and capillaries. Contain one, two, or very rarely three or four cell nuclei. Branching interconnections between cells.

Intercalated discs – specialized intercellular connections between cells

Intercalated Discs

Interconnect cardiac muscle cells. Secured by desmosomes which stabilize two adjacent cells and help to resist shearing forces. Desmosomes are molecular complexes of cell adhesion proteins and linking proteins that attach the cell surface adhesion proteins to intracellular keratin cytoskeletal filaments. Linked by gap



(a) Anterior (sternocostal) surface

junctions which allow ions to move directly between cells. Convey force of contraction. Propagate action potentials – electric signals. Allow all cells function as one

The right Atrium

Superior vena cava – Receives blood from head, neck, upper limbs, and chest. *Inferior vena cava* – Receives blood from trunk, viscera, and lower limbs. *Coronary sinus* – Cardiac veins return blood to coronary sinus. *Coronary sinus* opens into right atrium

Internal heart chambers

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O García



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