

Structure of the Heart

Laboratory Exercise 41

Background

The heart is a muscular pump located within the mediastinum and rests upon the diaphragm. It is enclosed by the lungs, thoracic vertebrae, and sternum. Attached at its top (the base) are several large blood vessels. Its distal end extends downward to the left and terminates as a bluntly pointed apex.

The heart and the proximal ends of the attached blood vessels are enclosed by a double-layered pericardium. The inner layer of this membrane (visceral pericardium) consists of a thin covering that is closely applied to the surface of the heart, whereas the outer layer (parietal pericardium with fibrous pericardium) forms a tough, protective sac surrounding the heart.

Materials Needed

Textbook
Dissectible human heart model
Fresh pig heart
Dissecting tray
Dissecting instruments
Disposable gloves



Purpose of the Exercise

Review the structural characteristics of the human heart and examine the major features of a mammalian (pig) heart.

Procedure A – The Human Heart

1. Label figures 41.1, 41.2, and 41.3.
2. Examine the heart model and locate the following features: heart, epicardium, myocardium, endocardium, atria, ventricles, A-V valves, chordae tendineae, papillary muscles, superior vena cava, inferior vena cava, pulmonary trunk, pulmonary arteries, pulmonary veins, aorta, semilunar valves.
3. Complete Part A of the laboratory report.

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