

LABORATORY EXERCISE 41

STRUCTURE OF THE HEART

MATERIALS NEEDED

textbook
dissectible human heart model
preserved sheep or other mammalian heart
dissecting tray
dissecting instruments

SAFETY

- Wear disposable gloves when working on the heart dissection.
- Save or dispose of the dissected heart as instructed.
- Wash the dissecting tray and instruments as instructed.
- Wash your laboratory table.
- Wash your hands before leaving the laboratory.

The heart is a muscular pump located within the mediastinum and resting upon the diaphragm. It is enclosed by the lungs, thoracic vertebrae, and sternum and attached to 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 consists of a thin covering that is closely applied to the surface of the heart, whereas the outer layer forms a tough, protective sac surrounding the heart.

PURPOSE OF THE EXERCISE

To review the structural characteristics of the human heart, and to examine the major features of a mammalian heart.

LEARNING OBJECTIVES

After completing this exercise, you should be able to

1. identify the major structural features of the human heart;
2. compare the features of the human heart with those of another mammal.

PROCEDURE A— THE HUMAN HEART

1. Review a textbook section on the *structure of the heart*.
2. As a review activity, label figures 41.1, 41.2, and 41.3.
3. Complete Part A of Laboratory Report 41.
4. Examine the human heart model and locate the following features:

heart

base

apex

pericardial sac

fibrous pericardium (outer layer)

parietal pericardium (inner lining)

pericardial cavity

epicardium (visceral pericardium)

myocardium

endocardium

atria

right atrium

left atrium

auricles

ventricles

right ventricle

left ventricle

atrioventricular orifices

atrioventricular valves (A-V valves)

tricuspid valve

bicuspid (mitral) valve

chordae tendineae

papillary muscles

atrioventricular sulcus

Structure Of The Heart Laboratory Report 41

J Elliott



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Structure Of The Heart Laboratory Report 41 . This emotionally charged ebook, available for download in a PDF format (PDF Size: *), is a celebration of love in all its forms. Download now and let the warmth of these stories envelop your heart.

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