

# 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.

# Laboratory Exercise 41 Structure Of The Heart

**Lauren Gardner**



## **Laboratory Exercise 41 Structure Of The Heart:**

This book delves into Laboratory Exercise 41 Structure Of The Heart. Laboratory Exercise 41 Structure Of The Heart is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Laboratory Exercise 41 Structure Of The Heart, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Laboratory Exercise 41 Structure Of The Heart
    - Chapter 2: Essential Elements of Laboratory Exercise 41 Structure Of The Heart
    - Chapter 3: Laboratory Exercise 41 Structure Of The Heart in Everyday Life
    - Chapter 4: Laboratory Exercise 41 Structure Of The Heart in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Laboratory Exercise 41 Structure Of The Heart. This chapter will explore what Laboratory Exercise 41 Structure Of The Heart is, why Laboratory Exercise 41 Structure Of The Heart is vital, and how to effectively learn about Laboratory Exercise 41 Structure Of The Heart.
  3. In chapter 2, this book will delve into the foundational concepts of Laboratory Exercise 41 Structure Of The Heart. This chapter will elucidate the essential principles that must be understood to grasp Laboratory Exercise 41 Structure Of The Heart in its entirety.
  4. In chapter 3, the author will examine the practical applications of Laboratory Exercise 41 Structure Of The Heart in daily life. This chapter will showcase real-world examples of how Laboratory Exercise 41 Structure Of The Heart can be effectively utilized in everyday scenarios.
  5. In chapter 4, this book will scrutinize the relevance of Laboratory Exercise 41 Structure Of The Heart in specific contexts. The fourth chapter will explore how Laboratory Exercise 41 Structure Of The Heart is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, this book will draw a conclusion about Laboratory Exercise 41 Structure Of The Heart. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Laboratory Exercise 41 Structure Of The Heart.

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