Cardiovascular System



3 Layers of the Heart:

- Epicardium the outermost layer of the heart.
- Myocardium the middle layer of the heart, the contracting muscle.
- Endocardium innermost layer of the
 heart, lines the inner
 chambers and the
 valves.

The Heart:

It is a cone-shaped organ in the mediastinal space. Which pumps oxygenated blood into the arterial system to supply capillaries and tissue. It pumps poor oxygenated blood from the venous system through the lungs to be reoxygenated. The heart is encased in a pericardial sac, which protects it, lubes and holds about 10-20 ml of pericardial fluid. The sac has 2 layers:



Chambers of the Heart:

- Right Atrium carries decxygenated blood from the body via superior and inferior vena cava.
- Left Atrium carries oxygenated blood from the pulmonary veins.

Right Ventricle- carries

blood from the right
atrium and pumps
the lungs
pulmos
and pumps it
and pumps it
to and pumps it
to and pumps it

Valves of the Heart:

3.

- 1. Tricuspid Va on the right so
- Mitral /Bicuspid Valve located on the left side of the heart.
- Pulmonic Valve between the right ventricle and pulmonary artery.
- Aortic Valve- between the ventricle and the aorta.



Blood flow through to Vice

the beart.

- 1. Blood for Wena cava and
- 3 blood then moves through the tricuspid valve into the right ventricle chamber of
- Then the blood moves through the pulmonary valve into the pulmonary artery.
- The blood re-enters the heart from the lungs through the pulmonary veins, and travel into the left atrium.
- The blood then passes through the mitral valve and into the left ventricle chamber of the heart.
- The blood then moves through the sortic valve and into the aorta.

Electrical conduction of the heart:

SA Node: 1st pacemaker of the heart and initiates contraction at 60-100 bpm.

AV Node: 2nd pacemaker of the heart that receives impulses from the SA node initiates and sustains impulses at 40-60 bpm.

Bundle of His: It is the continuation of the AV node and branches into the bundle of his branches which goes into the purkinje fibers.

Purkinje fibers: network of conducting stands beneath the ventricular endocardium. They can act as a pacemaker when the SA and AV fail as pacemakers. It can sustain 20-40 bom.

Human Anatomy And Physiology Study Guide Heart

RD Boyd

Human Anatomy And Physiology Study Guide Heart:

This book delves into Human Anatomy And Physiology Study Guide Heart. Human Anatomy And Physiology Study Guide Heart is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Human Anatomy And Physiology Study Guide Heart, encompassing both the fundamentals and more intricate discussions.

- 1. The book is structured into several chapters, namely:
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 - o Chapter 2: Essential Elements of Human Anatomy And Physiology Study Guide Heart
 - Chapter 3: Human Anatomy And Physiology Study Guide Heart in Everyday Life
 - Chapter 4: Human Anatomy And Physiology Study Guide Heart in Specific Contexts
 - ∘ Chapter 5: Conclusion
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- 3. In chapter 2, the author will delve into the foundational concepts of Human Anatomy And Physiology Study Guide Heart. The second chapter will elucidate the essential principles that need to be understood to grasp Human Anatomy And Physiology Study Guide Heart in its entirety.
- 4. In chapter 3, this book will examine the practical applications of Human Anatomy And Physiology Study Guide Heart in daily life. The third chapter will showcase real-world examples of how Human Anatomy And Physiology Study Guide Heart can be effectively utilized in everyday scenarios.
- 5. In chapter 4, this book will scrutinize the relevance of Human Anatomy And Physiology Study Guide Heart in specific contexts. This chapter will explore how Human Anatomy And Physiology Study Guide Heart is applied in specialized fields, such as education, business, and technology.
- 6. In chapter 5, the author will draw a conclusion about Human Anatomy And Physiology Study Guide Heart. The final chapter will summarize the key points that have been discussed throughout the book.

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