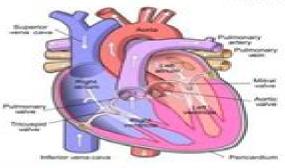
# Cardiovascular System



#### 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.

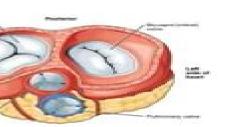
Right Ventricle- carries

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.

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**Bruce Wingerd, Patty Bostwick Taylor** 

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# **Table of Contents Human Anatomy And Physiology Study Guide Heart**

- 1. Understanding the eBook Human Anatomy And Physiology Study Guide Heart
  - The Rise of Digital Reading Human Anatomy And Physiology Study Guide Heart
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Human Anatomy And Physiology Study Guide Heart
  - Exploring Different Genres
  - o Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Human Anatomy And Physiology Study Guide Heart
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Human Anatomy And Physiology Study Guide Heart
  - Personalized Recommendations
  - Human Anatomy And Physiology Study Guide Heart User Reviews and Ratings

- Human Anatomy And Physiology Study Guide Heart and Bestseller Lists
- 5. Accessing Human Anatomy And Physiology Study Guide Heart Free and Paid eBooks
  - Human Anatomy And Physiology Study Guide Heart Public Domain eBooks
  - Human Anatomy And Physiology Study Guide Heart eBook Subscription Services
  - Human Anatomy And Physiology Study Guide Heart Budget-Friendly Options
- 6. Navigating Human Anatomy And Physiology Study Guide Heart eBook Formats
  - o ePub, PDF, MOBI, and More
  - Human Anatomy And Physiology Study Guide Heart Compatibility with Devices
  - Human Anatomy And Physiology Study Guide Heart Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Human Anatomy And Physiology Study Guide Heart
  - Highlighting and Note-Taking Human Anatomy And Physiology Study Guide Heart
  - Interactive Elements Human Anatomy And Physiology Study Guide Heart
- 8. Staying Engaged with Human Anatomy And Physiology Study Guide Heart
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Human Anatomy And Physiology Study Guide Heart
- 9. Balancing eBooks and Physical Books Human Anatomy And Physiology Study Guide Heart
  - Benefits of a Digital Library
  - o Creating a Diverse Reading Collection Human Anatomy And Physiology Study Guide Heart
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Human Anatomy And Physiology Study Guide Heart
  - Setting Reading Goals Human Anatomy And Physiology Study Guide Heart
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Human Anatomy And Physiology Study Guide Heart
  - Fact-Checking eBook Content of Human Anatomy And Physiology Study Guide Heart
  - Distinguishing Credible Sources

- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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