

# CARDIOVASCULAR SYSTEM : ANATOMY & PHYSIOLOGY

## FUNCTION OF CIRCULATION

Delivers O<sub>2</sub> , nutrients, hormones and antibodies to organs, tissues and cells  
Removes the end product of cellular metabolism

## FUNCTION OF THE HEART

Pumps oxygenated blood into the arterial system to supply capillaries and tissue  
Pumps oxygen poor blood from the venous system through the lungs to be reoxygenated.

## ANATOMY OF THE HEART

Cone shaped organ located in the mediastinal space.  
The pericardial sac encases the heart and protects it, lubricates and holds 5-20 ml of pericardial fluid. This has two layers.

- the parietal pericardium which is the outer membrane
- the visceral pericardium is the inner membrane attached to the heart.

### CONSISTS OF 3 LAYERS

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

### 4 CHAMBERS

- Right atrium: carries deoxygenated blood from the body via superior and inferior vena cava.
- Right ventricle: carries blood from the right atrium and pumps it into the lungs through the pulmonary artery
- Left atrium: carries oxygenated blood from the pulmonary veins
- Left ventricle: carries oxygenated blood from the left atrium and pumps it into the systemic circuit through the aorta.

### 4 VALVES

Two atrioventricular valves that close at the beginning of ventricular contraction. They prevent blood from flowing back into the atria.

- Tricuspid valve : on the right side of the heart
- Bicuspid valve: on the left side of the heart

Two semilunar valves that prevent blood from flowing back into the ventricles during relaxation

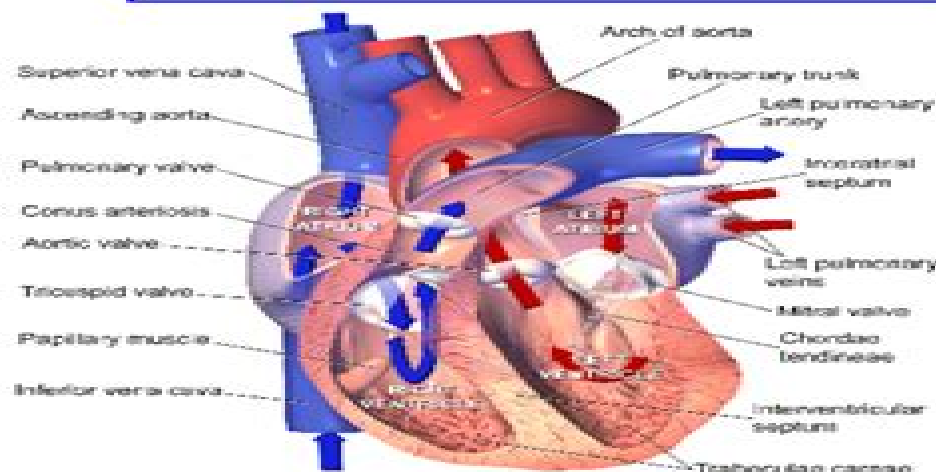
- Pulmonic semilunar valve: between the right ventricle and pulmonary artery
- Aortic semilunar valve: between the ventricle and the aorta.

## CORONARY ARTERIES

- Right main coronary artery: supplies the right atrium and ventricle, the inferior left ventricle, posterior septal wall, SA and AV nodes.
- Left main coronary artery: consists of two main branches left anterior descending which supplies blood to the left ventricle and the ventricular septum and circumflex arteries which supply blood to the left atrium and the lateral/posterior aspects of the left ventricle.

## BLOOD FLOW OF THE HEART

- From the superior and inferior vena cava oxygen poor blood goes to the
- Right atria through the tricuspid valve
- Right ventricle to the pulmonary valve
- To the pulmonary trunk and arteries into the lungs Co<sub>2</sub> is lost and O<sub>2</sub> is gained in the pulmonary capillaries
- O<sub>2</sub> rich blood enters the pulmonary veins to the left atrium
- Blood travels through the bicuspid valve and enters the left ventricle
- Blood moves through the aortic valve and travels through the aorta to the systemic circuit



Sectional Anatomy of the Heart

## ELECTRICAL CONDUCTION

- SA node: pacemaker of the heart and initiates contraction at 80- 100 BPM.
- AV : receives impulses from the SA node initiates and sustains impulses at 40-60 BPM
- Bundle of His: continuation of the AV node and branches into the the bundle branches which terminate in the purkinje fibers
- Purkinje fibers: network of conducting strands beneath the ventricular endocardium. They can act as a pacemaker when the SA and AV fail as pace makers. They can sustain at 20-40 BPM

# Vascular System Study Guide

**Ensheng Dong**



## **Vascular System Study Guide:**

**Surgery-Vascular Specialty Review and Study Guide** Richard Anthony,2015-09-25 Includes Multiple choice fact scenario and case based questions Correct answers and explanations to help you quickly master specialty content All questions have keywords linked to additional online references The mission of StatPearls Publishing is to help you evaluate and improve your knowledge base We do this by providing high quality peer reviewed educationally sound questions written by leading educators StatPearls Publishing

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**Guide** Steven E. Lucking, Frank A. Maffei, Robert F. Tamburro, Neal J. Thomas, 2012-04-10 This is the first comprehensive study guide covering all aspects of pediatric critical care medicine It fills a void that exists in learning resources currently available to pediatric critical care practitioners The major textbooks are excellent references but do not allow concise reading on specific topics and are not intended to act as both text and study guide There are also several handbooks available but these are usually written for general pediatric residents and lack the advanced physiology and pathophysiology required for the higher level pediatric critical care practitioner Pediatric-Neurology Specialty Review and Study Guide

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## **Table of Contents Vascular System Study Guide**

1. Understanding the eBook Vascular System Study Guide
  - The Rise of Digital Reading Vascular System Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Vascular System Study Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Vascular System Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Vascular System Study Guide
  - Personalized Recommendations
  - Vascular System Study Guide User Reviews and Ratings
  - Vascular System Study Guide and Bestseller Lists
5. Accessing Vascular System Study Guide Free and Paid eBooks
  - Vascular System Study Guide Public Domain eBooks
  - Vascular System Study Guide eBook Subscription Services
  - Vascular System Study Guide Budget-Friendly Options
6. Navigating Vascular System Study Guide eBook Formats

- ePub, PDF, MOBI, and More
- Vascular System Study Guide Compatibility with Devices
- Vascular System Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Vascular System Study Guide
  - Highlighting and Note-Taking Vascular System Study Guide
  - Interactive Elements Vascular System Study Guide
- 8. Staying Engaged with Vascular System Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Vascular System Study Guide
- 9. Balancing eBooks and Physical Books Vascular System Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Vascular System Study Guide
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Vascular System Study Guide
  - Setting Reading Goals Vascular System Study Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Vascular System Study Guide
  - Fact-Checking eBook Content of Vascular System Study Guide
  - 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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web there it came to a thoughtful stop who is it the girl said gaston where does he live well he used to live in this peach seed but now that the peach has been harvested and sold and i have eaten half of it it looks as if he s out of house and home aren t you going to squash him

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web just like in the story gaston by william saroyan the little girl s relationship with her father is very much like my own when the girl visits him after an undisclosed amount of time they have a moment together with a peach and little bug named gaston the bug gaston symbolizes the father and in relevance to the peach the peach

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