

CARDIOVASCULAR SYSTEM : ANATOMY & PHYSIOLOGY

FUNCTION OF CIRCULATION:

Delivers O₂, 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.

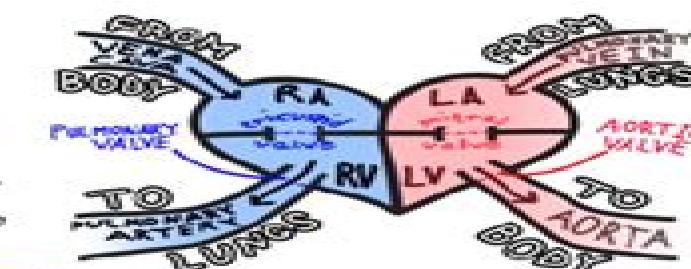
- ◆ the parietal pericardium which is the outer membrane.
- ◆ the visceral pericardium is the inner membrane attached to the heart.

CONSISTS OF 3 LAYERS

- ◆ **Epicardium**: outermost layer of the heart.
- ◆ **Mycocardium**: 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.

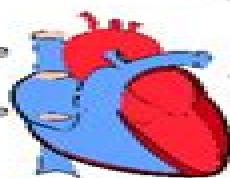
- ◆ **Tricuspid valve**: on the right side of the heart.
- ◆ **Bicuspid valve**: on the left side of the heart.

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

- ◆ **Pulmonary 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

1. From the superior and inferior vena cava, oxygen-poor blood goes to the right atria through the tricuspid valve.
2. Right ventricle to the pulmonary valve.
3. To the pulmonary trunk and arteries into the lungs. CO₂ is lost and O₂ is gained in the pulmonary capillaries.
4. O₂ rich blood enters the pulmonary veins to the left atrium.
5. Blood travels through the bicuspid valve and enters the left ventricle.
6. Blood moves through the aortic valve and travels through the aorta to the systemic circuit.

ELECTRICAL CONDUCTION:

- ◆ **SA node**: pacemaker of the heart and initiates contraction at 60-100 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 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 pacemakers. They can sustain at 20-40 BPM.



Cardiac Surgery Study Guide

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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 **Manual of Perioperative Care in Adult Cardiac Surgery** Robert M. Bojar,2011-08-02 The fifth edition of Bojar's Manual of Perioperative Care in Adult Cardiac Surgery remains the gold standard for management of adult patients undergoing cardiac surgery The easily referenced outline format allows health practitioners of all levels to understand and apply basic concepts to patient care perfect for cardiothoracic and general surgery residents physician assistants nurse practitioners cardiologists medical students and critical care nurses involved in the care of both routine and complex cardiac surgery patients This comprehensive guide features Detailed presentation addressing all aspects of perioperative care for adult cardiac surgery patients Outline format allowing quick access to information Chronological approach to patient care starting with diagnostic tests then covering preoperative intraoperative and postoperative care issues Additional chapters discuss bleeding the respiratory cardiac and renal subsystems as well as aspects of care specific to recovery on the postoperative floor Updated references information on new drug indications and new evidence to support various treatment management options Practical and accessible this new edition of Manual of Perioperative Care in Adult Cardiac Surgery is the essential reference guide to cardiac surgical patient care [CSC Exam Secrets Study Guide](#) Csc Exam Secrets Test Prep,Mometrix Media LLC,2014-03-31 Includes Practice Test Questions CSC Exam Secrets helps you ace the Cardiac Surgery Certification Exam without weeks and months of endless studying Our comprehensive CSC Exam Secrets study guide is written by our exam experts who painstakingly researched every topic and concept that you need to know to ace your test Our original research reveals specific weaknesses that you can exploit to increase your exam score more than you've ever imagined CSC Exam Secrets includes The 5 Secret Keys to CSC Exam Success Time is Your Greatest Enemy Guessing is Not Guesswork Practice Smarter Not Harder Prepare Don't Procrastinate Test Yourself A comprehensive General Strategy review including Make Predictions Answer the Question Benchmark Valid Information Avoid Fact Traps Milk the Question The Trap of Familiarity Eliminate Answers Tough Questions Brainstorm Read Carefully Face Value Prefixes Hedge Phrases Switchback Words New Information Time Management Contextual Clues Don't Panic Pace Yourself Answer Selection Check Your Work Beware of Directly Quoted Answers Slang Extreme Statements Answer Choice Families A comprehensive Content review including Cardiac Dysrhythmias Sinus Bradycardia Supraventricular Tachycardia Premature Atrial Contractions Atrial Fibrillation Electrocardiogram Transcutaneous Pacing Cardioversion Emergency Defibrillation Hypothermia Heart Transplantation Pulse Oximetry Compartment Syndrome Heparin Rebound Effect Maze Procedures Diaphragmatic Dysfunction Hypoxic Alveolar Hypoventilation Respiratory Failure Acute Respiratory Distress Syndrome Air Leak Syndrome Pneumothorax Pleural Effusion Chylothorax Hemothorax Acute Pulmonary Embolism Pulmonary

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Cardiac Surgery Shahzad G. Raja,2020-02-11 This textbook provides a succinct overview of cardiac surgery with key concepts being emphasized throughout An abundance of illustrations intra operative photographs tables as well as information boxes aids the reader to visualise grasp and retain difficult concepts The inclusion of evidence based approaches to the management of a range of cardiac surgical conditions equips the reader with an understanding of how to overcome a variety of potentially tough clinical challenges Concise Cardiac Surgery A Complete Guide comprehensively covers a range of techniques used in cardiac surgery It is therefore an ideal resource for the trainee and practising cardiac surgeon seeking a practically focused text detailing how to apply the latest techniques and evidence based approaches in their day to day practice

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Patricia C. Seifert, 1994 *Introductory Medical-Surgical Nursing* Barbara Kuhn Timby, Nancy Ellen Smith, 2006-06-16 Study guide to accompany Timby and Smith's *Introductory Medical Surgical Nursing* Ninth Edition Plus LiveAdvise Online Student Tutoring Service 9780781780322 Compatibility BlackBerry OS 4.1 or Higher iPhone iPod Touch 2.0 or Higher Palm OS 3.5 or higher Palm Pre Classic Symbian S60 3rd edition Nokia Windows Mobile Pocket PC all versions Windows Mobile Smartphone Windows 98SE 2000 ME XP Vista Tablet PC

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