

# 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

# Mcq Pathology Cardiovascular System

**Myron E. Tracht**



## **Mcq Pathology Cardiovascular System:**

**MCQs in Objective Pathology with Explanations** SUMANT. SHARMA,2018      **Comprehensive Multiple-Choice Questions in Pathology** Vinay Kumar Kohli,Chitra Kohli,Akanksha Singh,2022-08-22 This book concisely provides important Pathology concepts to aid pathology trainees including medical students and resident physicians in passing any advanced pathology examination It provides a much needed revision aid and study guide Through dedicated questions and answers over 23 chapters covering every major organ system the book will develop skills needed to deal with different aspects of pathology in a systematic yet summarized manner The book helps solve problems faced by trainees by providing the highest yield content Throughout the book an intuitive and systematic approach is used to reinforce fundamental concepts

**MRCOG Part 1: High-Yield MCQs & Exam Prep Guide** MRCOG Part 1: High-Yield MCQs & Exam Prep Guide,2025-07-03 This comprehensive book is an essential resource for candidates preparing for the MRCOG Part 1 examination Covering an extensive range of topics it provides an in depth collection of questions and answers designed to reinforce understanding of key concepts in obstetrics and gynecology Structured into multiple domains the book systematically addresses maternal anatomical physiological and endocrine adaptations in pregnancy fetal development pathology of major organ systems genetic principles and perinatal outcomes It also includes guidance on antenatal screening ultrasound findings and the impact of various maternal and social factors on pregnancy With a clear and organized format this book serves as both a study guide and a question bank ensuring candidates gain the knowledge and confidence needed to excel in the MRCOG Part 1 examination Whether used for self assessment or structured revision this resource is invaluable for aspiring obstetricians and gynecologists      **Pharmacy - Multiple Choice Questions** Mr. Rohit Manglik,2024-07-30

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Edward Aiello,1967      *Pathology* A. Olusegun Fayemi,1988      The Pacemaker and Valve Identification Guide Dryden

Phelps Morse,Robert M. Steiner,1978      **Cardiovascular Disease** Joseph W. Linhart,Onkar S. Narula,1977      **Case**

**Studies in General and Systematic Pathology** James C. E. Underwood,1996 This book is a collection of 60 case studies each presented as a clinical problem Each case history takes the form of a narrative interrupted by questions with the relevant answers alongside Publisher      Respiratory System Basic Sciences: 1,500 Multiple Choice Questions and

Referenced Answers Thomas Pyung-Kee Lim,1972      Pathology Review Myron E. Tracht,1965      British Books in Print

,1985      Radiology Core Review Alexander G. Pitman,Nancy M. Major,Richard Tello,2003 Here s concise yet comprehensive coverage of the core radiology knowledge required to competently pass exams and for everyday practice The text covers three key areas knowledge of normality the ability to formulate a differential diagnosis given a finding or a group of findings and knowledge of disease and the pattern of manifestations relevant to imaging that a particular disease may produce

Organized by body system each chapter has three sections The normal sections examine normal structure normal values and normal findings The gamuts sections contain lists of differential diagnosis for an imaging finding The overview sections describe conditions by pathology and imaging     *Embryology Review; 1,141 Multiple Choice Questions and Referenced Answers* William Kenneth Metcalf,1974     **Urinary System Basic Sciences: 1,500 Multiple Choice Questions and Referenced Answers** Myron E. Tracht,1973     **Arrhythmias Case Studies** Lester B. Jacobson,Nora Goldschlager,1978  
    *British Medicine* ,1979 Monthly Lists of new books pamphlets official publications brochures reports and journal articles in medicine and allied fields Also includes forthcoming congresses to be held in Britain and the Commonwealth No index  
    *Archives of Pathology & Laboratory Medicine* ,1995     *International Books in Print* ,1987     *Health Science Books, 1876-1982* ,1982

## **Mcq Pathology Cardiovascular System** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Mcq Pathology Cardiovascular System**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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