

# 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

# Cardiovascular System Guide

**Philip I. Aaronson, Jeremy P. T.  
Ward, Michelle J. Connolly**



## **Cardiovascular System Guide:**

**Circulatory System (Speedy Study Guides)** Speedy Publishing, 2014-07-03 The circulatory system consists of the veins and arteries throughout the body through which blood flows to and from the heart. Owning a reference guide to the circulatory system is a valuable tool in any first aid kit. A reference guide will allow the owner to immediately recognize the severity of an injury based entirely on where the injury occurs and by the amount of blood flowing from the wound. This knowledge will determine how a person treats the injury. **The Cardiovascular System at a Glance** Philip I.

Aaronson, Jeremy P. T. Ward, Michelle J. Connolly, 2012-08-31 This concise and accessible text provides an integrated overview of the cardiovascular system considering the basic sciences which underpin the system and applying this knowledge to clinical practice and therapeutics. A general introduction to the cardiovascular system is followed by chapters on key topics such as anatomy and histology, blood and body fluids, biochemistry, excitation-contraction coupling, form and function, integration and regulation, pathology and therapeutics, clinical examination and investigation, all supported by clinical cases for self-assessment. Highly visual colour illustrations complement the text and consolidate learning. *The Cardiovascular System at a Glance* is the perfect introduction and revision aid to understanding the heart and circulation and now also features an additional chapter on pulmonary hypertension. Even more simplified illustrations to aid easier understanding. Reorganized and revised chapters for greater clarity. Brand new and updated clinical case studies illustrating clinical relevance and for self-assessment. The fourth edition of *The Cardiovascular System at a Glance* is an ideal resource for medical students whilst students of other health professions and specialist cardiology nurses will also find it invaluable. Examination candidates who need an authoritative concise and clinically relevant guide to the cardiovascular system will find it extremely useful. A companion website featuring cases from this and previous editions along with additional summary revision aids is available at [www.ataglanceseries.com/cardiovascular](http://www.ataglanceseries.com/cardiovascular). *The Cardiovascular System at a Glance* Philip I.

Aaronson, Jeremy P. T. Ward, Michelle J. Connolly, 2020-04-13 Everything you need to know about the cardiovascular system at a Glance. *The Cardiovascular System at a Glance* is the essential reference guide to understanding all things circulatory. Concise, accessible and highly illustrated, this latest edition presents an integrated overview of the subject from the basics through to application. Featuring brand new content on stroke, examination and imaging, heart block and ECGs and myopathies and channelopathies. *The Cardiovascular System at a Glance* goes one step further and offers new and updated clinical case studies and multiple choice questions on a supplementary website. Integrates basic science and clinical topics. Offers bite-size chapters that make topics easy to digest. Includes coverage of anatomy and histology, blood and haemostasis, cellular physiology, form and function, regulation and integration of cardiovascular function, history, examination and investigations, pathology and therapeutics. Filled with highly visual colour illustrations that enhance the text and help reinforce learning. The fifth edition of *The Cardiovascular System at a Glance* is an ideal resource for medical students, junior

doctors students of other health professions and specialist cardiology nurses      *Handbook of Physiology: The cardiovascular system. v. 1. The heart. v. 2. Vascular smooth muscle. v. 3, pt.1-2. Peripheral circulation and organ blood flow* ,1977      A Handbook of Practical Treatment: Diseases of the circulatory system, infectious diseases, tropical diseases, animal parasites John Herr Musser,Aloysius Oliver Joseph Kelly,Thomas Charles Kelly,1911      **Handbook of Physiology: The cardiovascular system** ,1984      **Circulatory System Advanced** Vincent Perez,2013-07-31 Our new guide on the circulatory system illustrated by accomplished anatomical artist Vincent Perez includes in depth coverage of veins and arteries including depictions over and under transparent bone to better expose the system around the head neck and heart as well as separate views of major organs and extremities From teachers and students of anatomy to medical professionals and therapists this guide is perfect for your medical study or practice      **Advances in Cardiovascular System Research and Application: 2013 Edition** ,2013-06-21 Advances in Cardiovascular System Research and Application 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Myocardial Contraction The editors have built Advances in Cardiovascular System Research and Application 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Myocardial Contraction in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Advances in Cardiovascular System Research and Application 2013 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at [http www ScholarlyEditions com](http://www.ScholarlyEditions.com)

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The Top Books of the Year Cardiovascular System Guide The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have enthralled audiences this year. Cardiovascular System Guide : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and gripping novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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