

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
- 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

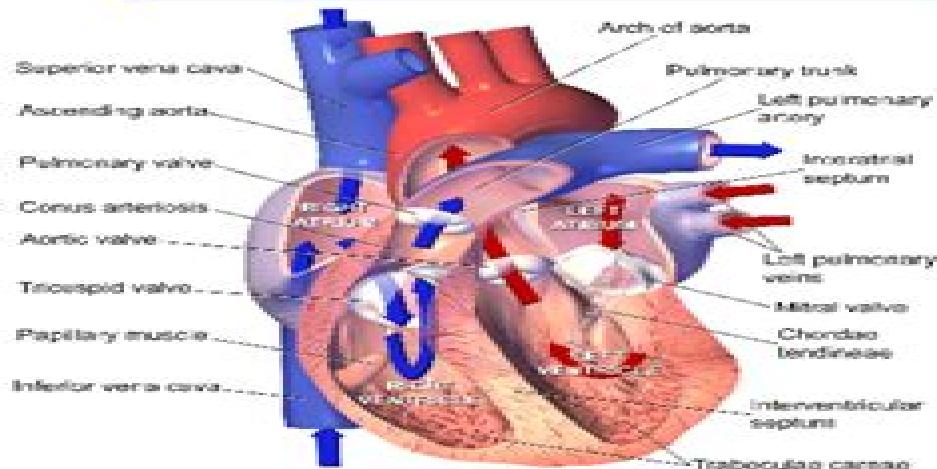
- Pulmonary semilunar valve: between the right ventricle and pulmonary artery
- Aortic semilunar valve: between the ventricle and the aorta.

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

- From the superior and inferior vena cava oxygen poor blood goes to the right atrium through the tricuspid valve.
- Right atrium to the right ventricle
- Right ventricle to the pulmonary valve
- To the pulmonary trunk and arteries into the lungs CO₂ is lost and O₂ is gained in the pulmonary capillaries.
- O₂ 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 60- 100 BPM.
- AV node: receives impulses from the SA node, initiates and conducts impulses at 40-60 BPM.
- Bundle of His: continuation of the AV node and branches into the two 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

JE Gale

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.

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

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