

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

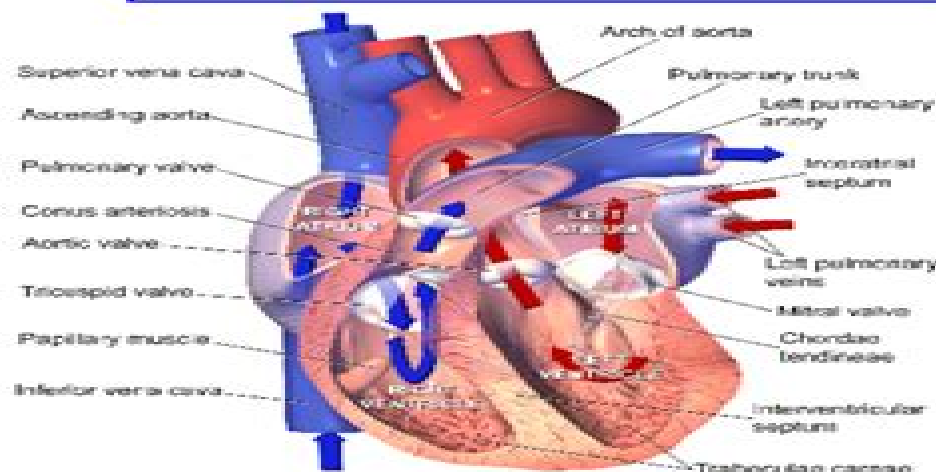
- ✦ Pulmonic semilunar valve: between the right ventricle and pulmonary artery
- ✦ Aortic semilunar valve: between the ventricle and the aorta.

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

1. From the superior and inferior vena cava oxygen poor blood goes to the
2. Right atria through the tricuspid valve
3. Right ventricle to the pulmonary valve
4. To the pulmonary trunk and arteries into the lungs Co₂ is lost and O₂ is gained in the pulmonary capillaries
5. O₂ rich blood enters the pulmonary veins to the left atrium
6. Blood travels through the bicuspid valve and enters the left ventricle
7. 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

Anatomy Of The Cardiovascular System Key

Andrew Kuntzman, Gerard J. Tortora



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The Dissection of Vertebrates Gerardo De Iuliis, Dino Pulerà, 2006-08-03 The Dissection of Vertebrates covers several vertebrates commonly used in providing a transitional sequence in morphology With illustrations on seven vertebrates lamprey shark perch mudpuppy frog cat pigeon this is the first book of its kind to include high quality digitally rendered illustrations This book received the Award of Excellence in an Illustrated Medical Book from the Association of Medical Illustrators It is organized by individual organism to facilitate classroom presentation This illustrated full color primary dissection manual is ideal for use by students or practitioners working with vertebrate anatomy This book is also recommended for researchers in vertebrate and functional morphology and comparative anatomy The result of this exceptional work offers the most comprehensive treatment than has ever before been available Received the Award of Excellence in an Illustrated Medical Book from the Association of Medical Illustrators Expertly rendered award winning illustrations accompany the detailed clear dissection direction Organized by individual organism to facilitate classroom presentation Offers coverage of a wide range of vertebrates Full color strong pedagogical aids in a convenient lay flat presentation

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Anatomy and Physiology 2e J. Gordon Betts, Kelly A. Young, James A. Wise, Eddie Johnson, Brandon Poe, Dean H. Kruse, Oksana Korol, Jody E. Johnson, Mark Womble, Peter DeSaix, 2024-09-11 Anatomy and Physiology 2e is developed to meet the scope and sequence for a two semester human anatomy and physiology course for life science and allied health majors The book is organized by body systems The revision focuses on inclusive and equitable instruction and includes new student support Illustrations have been extensively revised to be clearer and more inclusive This is an adaptation of Anatomy and Physiology 2e by OpenStax You can access the textbook as pdf for free at openstax.org Minor editorial changes were made to ensure a better ebook reading experience Textbook content produced by OpenStax is licensed under a Creative Commons Attribution 4.0 International License

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Physiology for the Manual Therapies Andrew Kuntzman, Gerard J. Tortora, 2009-08-17 Anatomy Physiology for the Manual Therapies 1e is designed to meet the specific needs of students preparing for careers in the manual therapies such as massage therapy and careers as physical therapy assistants This book provides the most appropriate depth of coverage for each body system in both narrative and visuals and by including relevant applications linking the content to situations they will face in their careers **Respiratory Care Anatomy and Physiology** Will Beachey, PhD, RRT, FAARC, 2012-10-22

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surface area chart NEW Clinical Focus scenarios are all revised and updated and new scenarios are added on topics including the effects of electronic nicotine devices vaping on the lung the addiction pathway and the counseling role of the respiratory therapist pulse CO oximeter use at the bedside non invasive assessment of the oxygenation deficit A a O₂ difference early prone positioning of the non intubated patient with COVID 19 and Transcatheter Aortic Valve Replacement TAVR NEW Updated Physiological Basis for Oxygenation and Mechanical Ventilation Strategies chapter covers pathophysiology and supportive care of SARS CoV 2 COVID 19 ARDS and the concepts of stress strain driving pressure and the mechanical power of ventilation as they relate to the prevention of ventilator induced lung injury VILI NEW Updated GINA 2020 asthma guidelines address the use of a long acting beta agonist LABA inhaled corticosteroid ICS combination in emergency rescue situations NEW Updated coverage of phrenic nerve stimulation examines the obtaining of transdiaphragmatic twitch pressure P_{di}tw in the assessment of ventilatory fatigue

Grainger & Allison's Diagnostic Radiology: Chest and Cardiovascular System Cornelia Schaefer-Prokop, Adrian K. Dixon, 2015-11-24 The 17 chapters in this book have been selected from the contents of the Chest and Cardiovascular System section in Grainger Allison's Diagnostic Radiology 6e These chapters provide a succinct up to date overview of current imaging techniques and their clinical applications in daily practice and it is hoped that with this concise format the user will quickly grasp the fundamentals they need to know Throughout these chapters the relative merits of different imaging investigations are described variations are discussed and recent imaging advances are detailed

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