

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

- 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 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**: 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

Cardiac Nursing

Robert R. Redfield



Cardiac Nursing:

Cardiac Nursing Richard Hatchett, David R. Thompson, 2007 This title is directed primarily towards health care professionals outside of the United States It is a comprehensive reference text which covers all areas of cardiac care that nurses need to know about As well as the clinical conditions and syndromes it covers health promotion and rehabilitation Nursing care in relation to a variety of specific conditions is discussed together with current changes and management in cardiac care provision Contributions come from clinical experts across the sub specialties and the book is richly illustrated including a colour plate section Content completely revised and updated including the latest evidence base and clinical guidelines Three new chapters on hypertension physiological assessment and palliative care Additional material on Evolve including heart sounds for clinical assessment and useful web links Cardiac Nursing Erika S. Sivarajan Froelicher, 2000 A classic in the field of cardiac nursing this well recognized text and clinical reference has earned the reputation as The Red Reference Book for nurses caring for patients who have cardiac disease Revised and updated this edition reflects the latest procedures and techniques in cardiac nursing This book incorporates the nursing process and critical thinking strategies while also providing a foundation for the contents based on theory anatomy and physiology The liberal use of figures tables and authoritative references makes this the ideal text for graduate students and a reference for any nurse interested in cardiac nursing The authors of Cardiac Nursing Fourth Edition lay the groundwork for cardiovascular nursing in Part I by presenting the necessary information about cardiovascular anatomy and physiology Before the reader can fully comprehend the details of coronary heart disease it is essential to assimilate the information found in Part II Physiologic and Pathophysiologic Response Part III covers the assessment of coronary heart disease and addresses many noninvasive and invasive testing procedures currently available In Part IV various disease states and treatments are fully explored Finally Part V provides valuable information regarding the latest concepts in health promotion and disease prevention The straightforward style makes this an easily comprehensible text for both the experienced and novice nurse caring for patients who have or are at risk for developing cardiac disease A Brandon Hill Recommended Title Cardiac Nursing Debra K. Moser, Barbara Riegel, 2007-08-08 Cardiac Nursing A Companion to Braunwald's Heart Disease is the only comprehensive text available for cardiac nurses This brand new reference emphasizes both evidence based practice and hands on care in a high tech high touch approach that meets the high stakes needs of cardiac and critical care nurses What's more the book makes the material easily accessible by using clear language straightforward text and plenty of illustrations lists and tables This book is the third in a series of companion texts for Braunwald's Heart Disease and the first specifically for nurses Authored by the widely published well known co editors of The Journal of Cardiovascular Nursing two leaders in cardiac nursing Endorsed by the authors of Braunwald's Heart Disease including Eugene Braunwald the physician considered by many to be the father of modern cardiology Evidence based Practice boxes highlight research supported advances in

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