

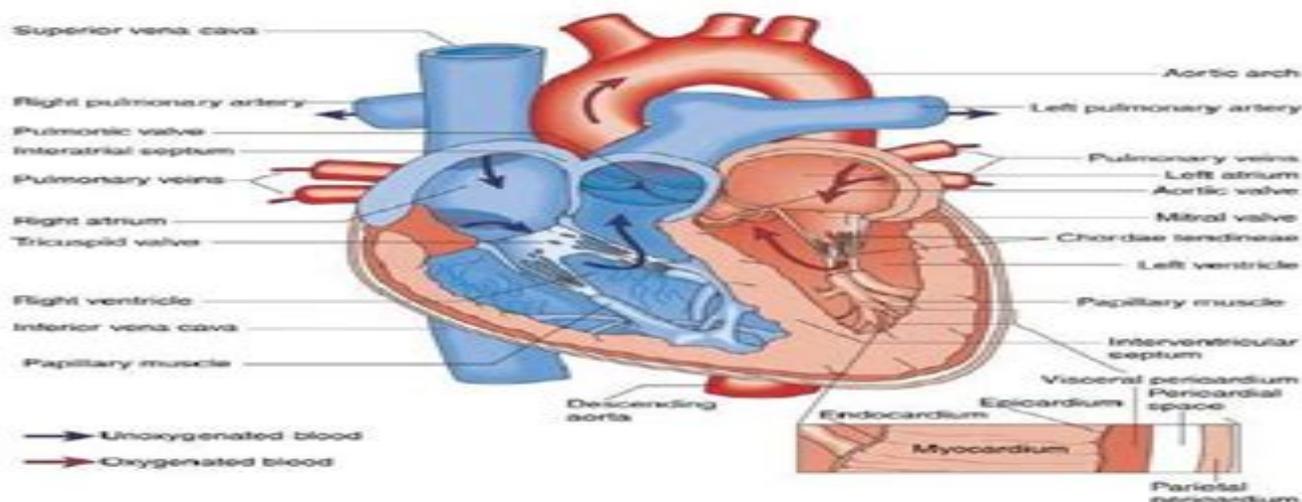


**MEDICAL AND SURGICAL NURSING**

*Cardiovascular System*

Lecturer: *Mark Frederick R. Abejo RN, MAN*

**Anatomy and Physiology of the Heart**



Cardiovascular system consists of the heart, arteries, veins & capillaries. The major functions are circulation of blood, delivery of O<sub>2</sub> & other nutrients to the tissues of the body & removal of CO<sub>2</sub> & other cellular products metabolism.

**Heart**

- > Muscular pumping organ that propel blood into the arterial system & receive blood from the venous system of the body.
- > Hollow muscular behind the sternum and between the lungs
- > Located on the middle of mediastinum
- > Resemble like a closed fist
- > Weighs approximately 300 – 400 grams
- > Has heart wall has 3 layers
  - Endocardium – lines the inner chambers of the heart, valves, chordate tendinae and papillary muscles.
  - Myocardium – muscular layer, middle layer, responsible for the major pumping action of the ventricles.
  - Epicardium – thin covering(mesothelium), covers the outer surface of the heart

- > Pericardium – invaginated sac
  - Visceral – attached to the exterior of myocardium
  - Parietal – attached to the great vessels and diaphragm.
- > Papillary Muscle
  - Arise from the endocardial & myocardial surface of the ventricles & attach to the chordae tendinae
- > Chordae Tendinae
  - Attach to the tricuspid & mitral valves & prevent eversion during systole
- > Separated into 2 pumps:
  - > right heart – pumps blood through the lungs
  - > left heart – pumps blood through the peripheral organs
- > Chamber of the Heart
  - **Atria**
    - ✓ 2 chambers, function as receiving chambers, lies above the ventricles
    - ✓

# Cardiovascular Nursing

**Mary Lucita**



## **Cardiovascular Nursing:**

*The ESC Textbook of Cardiovascular Nursing* Catriona Jennings, Felicity Astin, Donna Fitzsimons, Ekaterini Lambrinou, Lis Neubeck, David R. Thompson, 2022-01-14 This textbook provides in depth learning for nurses specialising in caring for patients with coronary heart disease heart failure valvular disease arrhythmias congenital heart disease and inherited cardiovascular conditions

**Cardiovascular Nursing**, 2015 Cardiovascular Nursing Cathie E. Guzzetta, Barbara Montgomery Dossey, 1992 Presents in depth comprehensive coverage of the adult cardiovascular patient including ways to assess diagnose and treat various dysfunctions all with a holistic nursing focus Addresses prevention critical illness rehabilitation and health promotion plus advances in pharmacologic technologic and biobehavioral interventions Examines how cardiovascular dysfunction affects the patient s mind and spirit Helps you gain expertise in the use of both technology and biobehavioral techniques

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

**Cardiovascular Nursing Secrets** Leslie Davis (MSN.), 2004 Part of the Nursing Secrets Series this text is designed to be useful for both new and experienced nurses in the cardiovascular field New graduates and novice nurses as well as those nurses returning to cardiovascular practice will find this book especially helpful in learning the pearls or secrets of the field Chapters focus on basic topics such as history taking and conducting a focused cardiovascular physical exam diagnostic procedures and interpretation of results patient preparation instruction etiologies of symptoms or disease states treatment options and the reduction of cardiovascular risk In addition current issues include family presence during invasive or resuscitative procedures end of life patient care and the role of genetics Book jacket

*Standards of Cardiovascular Nursing Practice* Council on Cardiovascular Nursing (American Heart Association), 1975

**Science of Caring**, 1993 Current Catalog National Library of Medicine (U.S.), 1983 First multi year cumulation covers six years 1965-70 **National Library of Medicine Audiovisuals Catalog** National Library of Medicine (U.S.), 1993 **Comprehensive Surgical Management of Congenital Heart Disease** Richard A Jonas, 2014-03-03 Highly Commended BMA Medical Book Awards 2015 Since the first edition of this book was published in 2004 the management of congenital heart disease has continued to evolve at a rapid pace Not only have new operations been developed and expanded such as the intra extracardiac conduit Fontan and the double root translocation for corrected transpos **Cardiac Vascular Nurse Certification Review** Kristine L'Ecuyer, Elaine Young, 2022-02-26 The definitive certification review for CVRN exam success Mirroring the CVRN Certification exam blueprint in style and content this is the most current and comprehensive review guide available Written in a user friendly style this review provides a concise and focused survey of the most important aspects of cardiovascular care Cardiac nursing experts deliver essential information in an easy to follow outline format that includes a glossary bulleted key points patient scenarios clinical pearls case studies references and practice Q As in each chapter Colorful charts and illustrations clarify complex information and a complete practice exam at the end of the book provides a targeted assessment of test readiness This review contains preparatory information about the CVRN certification exam including eligibility criteria how to apply guidance on best study practices and a test content outline A complete practice exam with more than 350 exam style questions with rationales enables readers to assess their strengths and weaknesses This text also contains further resources and best references for more in depth learning Key Features Includes a glossary bulleted key points patient scenarios clinical pearls case studies references and practice Q As in each chapter Over 350 exam style questions with complete rationales Provides a complete practice exam to determine test readiness **Cardiac Nursing** Elizabeth M Perpetua, Patricia Keegan, 2020-10-21 Need to develop strong cardiac nursing skills or advance your practice to a higher level The newly updated Cardiac Nursing 7th Edition is the gold standard reference and on the unit resource offering crucial guidance and direction for nurses looking to provide up to date evidence based cardiac care **ESC Textbook of Cardiovascular Nursing** Catriona Jennings, Felicity Astin, Donna Fitzsimons, Ekaterini Lambrinou, Lis Neubeck, David R Thompson, 2021-12-15 Part of the European Society of Cardiology series the ESC Textbook of Cardiovascular Nursing provides in depth learning for nurses specialising in caring for patients with coronary heart disease heart failure valvular disease arrhythmias congenital heart disease and inherited cardiovascular conditions The textbook builds on the ESC Core Curriculum for the Continuing Professional Development of Nurses Working in Cardiovascular Care There are fifteen chapters written by experts in the field The pathology of coronary heart disease heart failure valvular disease arrhythmias congenital heart disease and inherited cardiovascular conditions are all discussed in great detail Whilst tailoring nursing assessment and interventions to the care of patients with heart disease the textbook emphasises high quality holistic care taking account of the needs of patients with complex comorbidities as well as their

families The imperative of prevention and rehabilitation in terms of both primary and secondary prevention is described as well as educational behavioural and therapeutic interventions The epidemiology of cardiovascular disease is covered including disease burden and inequalities across European regions Chapters devoted to education and communication and pharmacology are also included and the book concludes with a chapter which discusses the future challenges and opportunities for nurses in addition to the evolution of nursing in cardiovascular care The target readership of the textbook are nurses entering cardiovascular specialisation and university students undertaking specialist courses in cardiovascular care The hope of the editors is that the textbook inspires readers to ask questions search for answers and become the best cardiovascular nurses they can be There is a strong body of evidence showing that educational provision for nurses increases patient safety and saves lives the ESC Textbook of Cardiovascular Nursing aims to be an essential part of this provision

*Standards of Cardiovascular Nursing Practice* Richard Jenkyns,1981      **Cardiovascular Nursing (2Nd Edition)** Mary Lucita,2009-11-19      Oxford Handbook of Cardiac Nursing Kate Olson,2014-01-16 Fully revised and updated for the second edition the Oxford Handbook of Cardiac Nursing is the ultimate companion for all those caring for cardiac patients Systematically covering all the main areas of cardiac nursing it is packed full of clinical information and practical advice This new edition now includes expanded information on prevention of cardiovascular disease and heart disease in pregnancy as well as the latest resuscitation guidelines protocols and clinical information The handbook covers assessment investigation treatment rehabilitation and pharmacological interventions and new illustrations and diagrams have been added throughout to aid clarity of information Although a large part of the handbook focuses on caring for patients with coronary heart disease many other cardiovascular problems such as valvular heart disease congenital heart disease and cardiomyopathies are covered Designed to be used on the ward in the community and for studying and revision it contains expert guidance written by experienced nurses and teachers The book is specifically laid out to enable quick access to precise targeted information and covers the vast majority of clinical scenarios Unique and indispensable the Oxford Handbook of Cardiac Nursing offers a wealth of information at your fingertips      **Cardiovascular Care Made Incredibly Easy!** Mary Ann

McLaughlin,2024-07-10 This new Fifth Edition of Cardiovascular Care Made Incredibly Easy is the ideal reference for those entering cardiovascular nursing care This one of a kind book rife with both content and graphics brings together the broad knowledge you need to be confident in cardiovascular care      **Pharmacological Aspects of Nursing Care** Barry S. Reiss,Mary E. Evans,1996 This best seller provides the most current drug information coupled with an emphasis on the nursing process and interventions to prepare nurses for the responsibilities they will encounter in drug administration

Current Concepts in Cardiac Care Christine L. Pollack-Latham,Mary M. Canobbio,1982      Diagnostic Testing & Nursing Implications Kathleen Deska Pagana,1986 DIAGNOSTIC TESTING AND NURSING IMPLICATIONS A CASE STUDY APPROACH teaches nursing students how to use diagnostic tests in patient assessment and emphasizes their special role in

the process The book s body system organization case studies with critical thinking questions review questions and a comprehensive practice test help student nurses understand diagnostic testing and apply their knowledge to clinical circumstances

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