

## CARDIOVASCULAR SYSTEM

### The Pulmonary Circuit

Carries blood to and from gas exchange surfaces of lungs

### The Systemic Circuit

Carries blood to and from the body

### 3 types of blood vessels

Arteries- Carry blood away from heart

Veins- Carry blood to heart

Capillaries- Networks between arteries and veins

## HEART WALL AND TISSUE

Layers of the heart wall

### 1. Epicardium (Visceral pericardium)

Covers surface of heart. Serous membrane consisting of simple squamous epithelium (these epithelial cells produce a lubricating fluid that is released between layers providing a slippery, non-adhesive and protective surface) and underlying connective tissue (attaching to myocardium)

## PERICARDIUM

**Pericardium** - double-walled sac (pericardial sac) that is made of fibrous tissue consisting of collagen fibers which enclose the heart and stabilize it. allows heart to beat without friction, provides room to expand, yet resists excessive expansion. anchored to diaphragm inferiorly and sternum anteriorly

### Parietal pericardium

– outer wall of sac. Superficial fibrous layer of connective tissue. A deep, thin serous layer. Not a heart wall layer but is

continuous with serous membrane of the visceral pericardium.

### Visceral pericardium

(epicardium) – heart covering. Serous lining of sac turns inward at base of heart to cover the heart surface

### Pericardial cavity

- space inside the pericardial sac filled with 5 - 30 mL of pericardial fluid. Pericarditis – inflammation of the membranes. Painful friction rub with each heartbeat

### 2. Myocardium

Middle, muscular layer forming atria and ventricles. Contains cardiac muscle tissue, blood vessels, and nerves. Concentric muscle tissue layers. Form a figure-eight around the atria. Superficial muscle layers wrap both ventricles. Deep muscle layers form figure-eight around ventricles

### 3. Endocardium

Covering inner surfaces of heart, including valves. Composed of simple squamous epithelial tissue and underlying areolar (loose connective) tissue. Endothelium of heart is continuous with the endothelium of the attached great blood vessels

## ANATOMY OF THE HEART

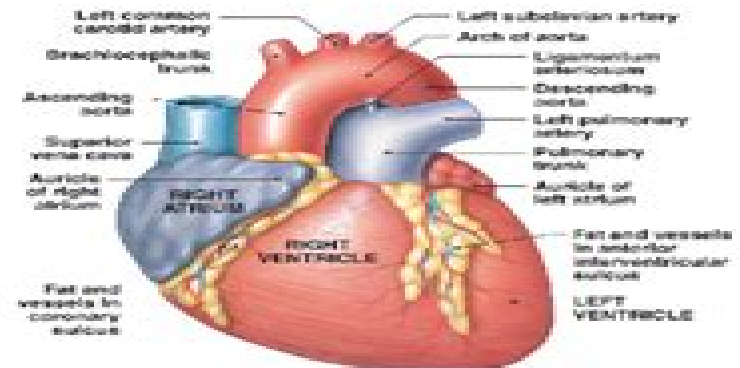
### Characteristics of Cardiac Muscle Cells

Small size, many mitochondria and capillaries. Contain one, two, or very rarely three or four cell nuclei. Branching interconnections between cells.

Intercalated discs – specialized intercellular connections between cells

### Intercalated Discs

Interconnect cardiac muscle cells. Secured by desmosomes which stabilize two adjacent cells and help to resist shearing forces. Desmosomes are molecular complexes of cell adhesion proteins and linking proteins that attach the cell surface adhesion proteins to intracellular keratin cytoskeletal filaments. Linked by gap



(a) Anterior (sternocostal) surface.

junctions which allow ions to move directly between cells. Convey force of contraction. Propagate action potentials – electric signals. Allow all cells function as one

### The right Atrium

*Superior vena cava* – Receives blood from head, neck, upper limbs, and chest. *Inferior vena cava* – Receives blood from trunk, viscera, and lower limbs. *Coronary sinus* – Cardiac veins return blood to coronary sinus. *Coronary sinus* opens into right atrium

### Internal heart chambers

# Cardiovascular Coding Cheat Sheet

**Lisette Wright, S. M. Tobias, Angela  
Hickman**



## **Cardiovascular Coding Cheat Sheet:**

*Medical Billing & Coding For Dummies* Karen Smiley, 2024-10-29 The essential guide for medical billing professionals updated for ICD 11 standards *Medical Billing Coding For Dummies* will set you up for success in getting started as a medical biller and coder To ensure data accuracy and efficient data processing medical offices need professionally trained coders to handle records This book provides prospective allied health professionals with everything they need to know to get started in medical billing and coding as a career In addition to an introduction to the basics of medical coding you ll get information on how to find a training course meet certification requirements and deal with government agencies and insurance companies Learn about the standard practices in the medical billing industry and get up to speed on the ethical and legal issues you re likely to face on the job This accessible guide is a great entry point and a great refresher for anyone interested in the medical billing and coding profession Get a primer on your career options in the field of medical billing Learn coding practices for telehealth viral outbreaks and other emerging issues Update your knowledge of the changes between ICD 10 and ICD 11 coding systems Find training programs and explore your options for certification This Dummies guide is an accessible entry point for prospective professionals looking get a jump on their new career and current professionals intent on staying up to date in this flexible and growing field

*Coding and Documentation Compliance for the ICD and DSM* Lisette Wright, S. M. Tobias, Angela Hickman, 2017-01-12 *Coding and Documentation Compliance for the ICD and DSM* provides professionals professors and students with a logical and practical way of understanding a difficult topic in healthcare for the clinician coding Established professionals will find the tools they need to comply with the ICD series HIPAA and integrated care models Professors and students will appreciate having a systemized standardized approach to teaching and learning the more complex aspects of ICD compliance The interplay between the ICD and DSM manuals is also explicated in clear terms

*Handbook of Human Factors and Ergonomics in Health Care and Patient Safety* Pascale Carayon, 2016-04-19 The first edition of *Handbook of Human Factors and Ergonomics in Health Care and Patient Safety* took the medical and ergonomics communities by storm with in depth coverage of human factors and ergonomics research concepts theories models methods and interventions and how they can be applied in health care Other books focus on particular human factors and ergonomics issues such as human error or design of medical devices or a specific application such as emergency medicine This book draws on both areas to provide a compendium of human factors and ergonomics issues relevant to health care and patient safety The second edition takes a more practical approach with coverage of methods interventions and applications and a greater range of domains such as medication safety surgery anesthesia and infection prevention New topics include work schedules error recovery telemedicine workflow analysis simulation health information technology development and design patient safety management Reflecting developments and advances in the five years since the first edition the book explores medical technology and telemedicine and puts a special emphasis on the contributions of human factors and ergonomics to

the improvement of patient safety and quality of care In order to take patient safety to the next level collaboration between human factors professionals and health care providers must occur This book brings both groups closer to achieving that goal

**The Great Cholesterol Myth Now Includes 100 Recipes for Preventing and Reversing Heart Disease** Jonny Bowden, Stephen Sinatra, Deirdre Rawlings, 2015-08-15 Now includes 100 recipes for preventing and reversing heart disease from the The great cholesterol cookbook The Great Cholesterol Myth Jonny Bowden, Stephen Sinatra, 2012-11-01 Heart disease is the 1 killer However traditional heart disease protocols with their emphasis on lowering cholesterol have it all wrong Emerging science is showing that cholesterol levels are a poor predictor of heart disease and that standard prescriptions for lowering it such as ineffective low fat high carb diets and serious side effect causing statin drugs obscure the real causes of heart disease Even doctors at leading institutions have been misled for years based on creative reporting of research results from pharmaceutical companies intent on supporting the 31 billion a year cholesterol lowering drug industry The Great Cholesterol Myth reveals the real culprits of heart disease including Inflammation Fibrinogen Triglycerides Homocysteine Belly fat Triglyceride to HCL ratios High glycemic levels Bestselling health authors Jonny Bowden Ph D and Stephen Sinatra M D give readers a 4 part strategy based on the latest studies and clinical findings for effectively preventing managing and reversing heart disease focusing on diet exercise supplements and stress and anger management Get proven evidence based strategies from the experts with The Great Cholesterol Myth **1998 Hospital and Payor ICD-9** J A Majors Publishing, OptumInsight, Incorporated, Medicode, 1997 Here are 14 reasons why Medicode s 1998 Hospital ICD 9 is coder tested and coder approved 1 Guaranteed accuracy Medicode has integrated all 1998 changes into this volume In fact they guarantee that if you make a coding error based on an outdated code while using their 1998 ICD 9 they ll give you next year s edition free 2 Color coding to make fourth and fifth digits easy to find 3 Easy to understand code definitions 4 Color illustrations 5 Color coded index for ease of use 6 Exclusive note save system that gives you room to write and a system to save important coding for next year s edition 7 Coding tips 8 Thumb index tabs 9 Spiral bound design 10 Index checkmarks that identify invalid codes 11 Medicare edits 12 References to AHA s Coding Clinic 13 Hospital revenue codes for supplies and services 14 A useful self test Physicians & Computers , 1990-05 *Twin Mythconceptions* Nancy L. Segal, 2017-02-08 Twin Mythconceptions False Beliefs Fables and Facts about Twins sheds new light on over 70 commonly held ideas and beliefs about the origins and development of identical and fraternal twins Using the latest scientific findings from psychology psychiatry biology and education the book separates fact from fiction Each idea about twins is described followed by both a short answer about the truth and then a longer more detailed explanation Coverage includes embryology of twins twin types intellectual growth personality traits sexual orientation of twins marital relationships epigenetic analyses and more Five appendices cover selected topics in greater depth such as the frequency of different twin types and the varieties of polar body twin pairs This book will inform and entertain behavioral and life science researchers health

professionals twins parents of twins and anyone interested in the fascinating topic of twins Identifies common misunderstandings about twins Provides scientific answers to questions about twins Encompasses the biology psychology genetics and personality of twins Includes discussion of identical fraternal same sex and fraternal opposite sex twins Allows for quick answers to common questions and more detailed explanations      **Bulletin of the American College of**

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that directs the user through the appropriate coding and charging for complex cardiology procedures. It includes coding guidelines ranging from the simplest procedures such as echocardiography to highly complex procedures involving multiple coronary artery interventions and electrophysiology. This extensive manual contains anatomical drawings, comprehensive coding and charging guidelines, as well as case examples to demonstrate how physician terminology translates to procedure codes. It also covers non-invasive and invasive procedures that may be performed by a cardiologist or in a cardiology department. Additionally, this cardiology coding book details coding guidelines for peripheral angiography and when it is combined with cardiac catheterization. Dr. Z's Diagnostic Interventional Cardiovascular Coding Reference is the only source you need to appropriately charge code and bill cardiovascular procedures. Order your cardiology coding reference book today and stay informed about the complex world of diagnostic and interventional cardiovascular procedures. **Coders'**

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