

The Ultimate ACS Study Guide

Advanced Cardiac Life Support (ACLS) provides guidelines for healthcare professionals for all types of cardiac emergencies.



EKG Anatomy



P-Wave = electrical activity in the upper heart chambers; represents contraction of SA node and AV node.

PR Interval = time from P wave to QRS complex.

QRS Complex = ventricular depolarization.

ST Segment = transition from ventricular depolarization to repolarization. Repolarization starts at the end of the QRS complex.

T-Wave = repolarization of upper heart.

ECG Rhythms

Ventricular Fibrillation - no organized blood, immediate defibrillation.

Ventricular Tachycardia - ventricular arrhythmia. Heart rate 100-250 bpm. Immediate cardioversion.

P纈tential &逸搏 (Fibrillation Activity) - fibrillation rate 300-500 bpm.

Atrial Fibrillation - on EKG, if leads are all connected, begin CPR immediately.

Sinus Bradycardia - rate less than 60 bpm, no cause/minute. Prolonged PR interval if not otherwise.

1st Degree AV Block - prolonged PR interval. Rhythm normal.

2nd Degree Block Type I - Wenckebach - progressive PR interval lengthening. Gradual complete. Rhythm requires treatment.

2nd Degree Block Type II - Mobitz I - ventricular逸搏 (fibrillation activity). Usually no pulse.

3rd Degree Block - between SA and AV nodes. Complete heart block. Prolonged PR interval.

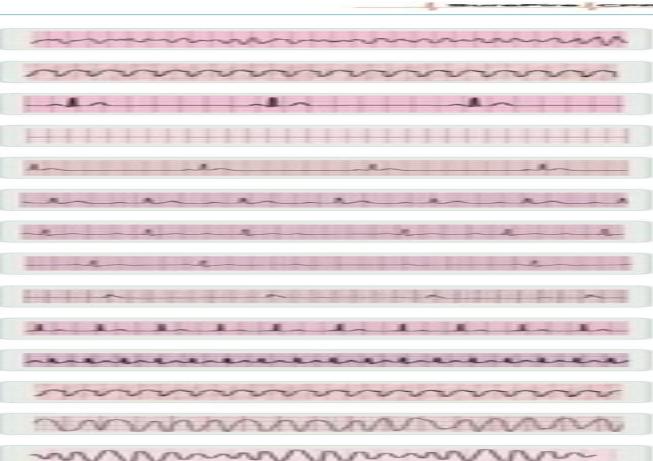
Sinus Tachycardia - increased heart rate of 100-150 beats per minute. No cause/minute. Rhythm normal.

Supraventricular Tachycardia - increased heart rate of 150-250 beats per minute. No cause/minute. Rhythm normal.

Monomorphic Ventricular Tachycardia - no cause/minute. Rhythm normal. Prolonged PR interval.

Polyomorphic Ventricular Tachycardia - no cause/minute. Different shapes and rates. Immediate cardioversion and CPR.

Torsades de Pointes - different shapes of QRS complexes. Forms a spiral pattern. No cause/minute. Immediate cardioversion - treat with magnesium.



Electrical Therapy Basics



Defibrillation - Use an automated external defibrillator (AED).

Synchronized Cardioversion - Shock synchronized to the heart's point.

Transcutaneous Pacing - Treats abnormally slow heart rate.

Airway Management



Adjuncts

- Oropharyngeal (OP) airway - use for unconscious patients with a gag reflex.
- Nasopharyngeal (NP) airway - use for unconscious patients without a gag reflex. NEVER USE WITH A HEAD INJURY.

Advanced Airways - recommended method, use with intubation with capnography.

- Endotracheal intubation - use capnography.
- Combitube andotracheal airway (C-MA) - use if unfamiliar with endotracheal tube.

Post-Resuscitation Care



Follow the ABCDs:

- Airway - maintain ventilation and oxygenation.
- Breathing - keep PETCO₂ between 35-40mmHg.
- Circulation - use a monitor to measure blood pressure of 90mmHg.
- Differential Diagnosis - use H&Ts to determine contributing factors to cardiac arrest.

Acute Coronary Syndromes (ACS)

Unstable Angina

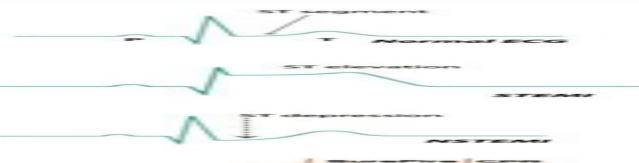
- Unexpected chest pain due to poor blood flow.
- Increased pain.
- Blood thinners - open a narrow or blocked artery.

ST-segment Elevation MI (STEMI)

- Total blockage of a coronary artery.
- Electrical activity during the ST-segment shows ST-segment elevation.
- Coronary intervention (PCI) or emergency CABG surgery.

Non-ST-segment Elevation MI (NSTEMI)

- Partial blockage of a coronary artery.
- ST-segment depression instead of elevated, no elevation.
- Inflammation.
- Immediate PCI or emergency CABG surgery.
- Coronary artery bypass grafting (CABG) surgery.



Stroke Assessment and Treatment

Cardiac arrest is a frequent complication after an acute ischemic stroke. If a stroke is suspected, immediately transport to the nearest Stroke Receiving Center.

Cincinnati Prehospital Stroke Scale:

1. Age over 60
2. Arm drift
3. Speech

“You can't teach an old dog new tricks”



Code Termination

Consult with medical control before code termination.



- Persistent asystole 25 minutes or longer.
- Obvious signs of death, withhold resuscitation efforts.

Disclaimer: Information on this page is for informational and educational only and should not be used as a substitute for professional medical advice or treatment.

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Yicheng Fang

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Mosby's Dental Dictionary E-Book Elsevier Inc, 2019-04-05 Selected for Doody's Core Titles 2024 with Essential Purchase designation in Dictionaries Terminology An essential dental resource that goes beyond education Mosby's Dental Dictionary 4th Edition is the must have pocket sized reference covering all areas of dentistry that's designed for both students and practitioners This new edition defines over 10 000 terms on dynamic areas of dentistry including materials imaging surgery orthodontics pain control and more Throughout the text over 300 illustrations address new innovations research technology and products in the field and extensive appendices provide quick access to the information you will use every day Plus a free companion website contains more than 5 000 audio pronunciations 500 additional images videos and animations to help illustrate key concepts Portable size offers convenience as a chair side or computer side reference Companion website includes over 5 000 audio pronunciations an expanded image collection and videos and animations Bolded pronunciations indicate terms that may be heard on the companion website Practical appendices in print and online provide a reference to abbreviations clinical oral structures anesthesia color codes implants and more Colored thumb tabs make it easy to locate definitions quickly NEW Terms on dynamic areas of dentistry include materials imaging surgery orthodontics pain control and more NEW Artwork includes photos of the latest equipment clinical techniques and modern illustrations to bring key concepts to life NEW Expanded audio pronunciations on the companion website ensures you're using the correct pronunciations of complex terms NEW Who's who of dentistry Editorial Board features expert editor Margaret Fehrenbach Dental Hygienist Oral Biologist Educational Consultant Dental Science Writer and Dental Hygiene Instructor [Mosby's Dental Dictionary, 4e- South Asia Edition- E Book](#) Om Prakash Kharbanda, 2020-09-09 Designed for use by the entire dental team Mosby's Dental Dictionary 4th edition South Asia edition defines more than 10 000 terms covering all areas of dentistry Definitions include specialties such as dental public health endodontics oral and maxillofacial pathology radiology oral and maxillofacial surgery orthodontics and dentofacial orthopedics pediatric dentistry periodontics and prosthodontics as well as commonly used medical and pharmacology terms for effective patient care incorporating the latest in research and technology This reference takes the clinical knowledge that Elsevier is known for and puts it into one easy to use volume with tabs and links most terms with a cascade of interconnecting terms NEW Dynamic Dentistry Coverage including materials lasers pain control practice management nutrition special needs prevention professional education and more NEW 300 Full Color Figures including the latest equipment basic sciences and clinical pathology as well as the latest techniques to bring key concepts to your clinical practice or dental instructing NEW Who's Who of Dentistry Editorial Board which also features expert Editor in Chief Margaret J Fehrenbach Dental Hygienist Oral Biologist NEW Dynamic Dentistry Coverage including materials lasers pain control practice management nutrition special needs prevention professional education and more NEW 300 Full Color Figures including the latest equipment basic sciences and clinical pathology as well as the latest techniques to

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Addresses conceptual and theoretical foundations of simulation in nursing education including an expanded chapter on the Framework for Simulation Learning in Nursing Education Includes a wide variety of practical scenarios in ready to use format with instructions Provides a template for scenario development Delivers recommendations for integration of point of care decision making tools Offers opportunities for enhancing complexity incorporating interprofessional competencies and debriefing guidelines Provides insight into pedagogical intergration of simulation throughout every aspect of the nursing curriculum with scenarios mapped to North American standards and the NCLEX RN Blueprint Includes details on learning lab and staff development from fundraising and building a lab Ch 6 to placement of AV Ch 7 to faculty development Ch 5 and self assessment for certification and accreditation Ch 54 A trauma informed approach to women s health Ch 33 Scenarios with authors from North America USA Canada Brazil and Hong Kong

Textbook of Emergency & Trauma Care

Devendra Richhariya,2018-02-28 This book is a comprehensive guide to emergency and trauma care covering the complete process from pre hospital care rapid and point of care assessment and triaging to care of the patient during transfer and in hospital care Beginning with a general overview of emergency care and resuscitation the following sections discuss the treatment of emergencies and trauma in different systems of the body A complete section is dedicated to paediatric emergencies The final chapters cover trauma management toxicology disaster management and environmental emergencies such as thermal and chemical burns and snake bites The descriptive text is further enhanced by more than 700 flowcharts tables diagrams clinical photographs and short notes to assist learning Key points Comprehensive guide to emergency and trauma care Covers management of emergencies in different systems of the body Includes section on paediatric emergencies Highly illustrated with flowcharts tables diagrams photographs and short notes

TEXT BOOK OF HUMAN ANATOMY AND

PHYSIOLOGY-I Mr. Somanath Satyappa Janawad, Dr. Dipika K. Thale, Prashant Gupta, Dr. Suprabha Devi, Dr. Averineni Ravi Kumar,2025-06-02 The Text Book of Human Anatomy and Physiology I is a foundational resource tailored for students beginning their journey into the biological sciences and healthcare fields It offers a comprehensive introduction to the structure and function of the human body starting with basic concepts such as the definitions and scopes of anatomy and physiology The book delves into the levels of structural organization beginning with cells the building blocks of life and progresses through tissues organs and systems Each chapter is methodically organized to build upon the previous one ensuring a logical progression of knowledge The cellular level of organization explains cell structures functions transport mechanisms division and intracellular signaling pathways In the tissue section the book details the classifications and functional significance of epithelial muscular nervous and connective tissues The integumentary system chapter highlights the structure and vital protective functions of the skin The skeletal and muscular systems are examined in detail with emphasis on bone classification joint articulation and muscle physiology including neuromuscular junctions The book also includes essential insights into the body fluids and blood outlining components hematopoiesis coagulation and disorders The

lymphatic system section presents the roles of lymph lymph nodes and organs in immunity Further the peripheral nervous system is thoroughly explored covering cranial and spinal nerves and the sympathetic and parasympathetic divisions Special senses are introduced with detailed coverage of the eye ear nose and tongue along with associated disorders The cardiovascular system chapter offers a deep dive into heart anatomy blood flow vessel structure and physiological processes like cardiac output and blood pressure regulation Each system is described in a student friendly manner supported by clear terminology and clinical relevance This book is not just a study guide but a stepping stone toward deeper understanding in the fields of medicine pharmacy and allied health sciences

Clinical Research in Occupational Therapy, Sixth Edition

Martin S. Rice,George Tomlin,Franklin Stein,2024-06-01 In this new edition Dr George Tomlin joins Dr Martin S Rice and Dr Franklin Stein to add expertise and knowledge of the occupational therapy field With the combined knowledge and skills of the authors Clinical Research in Occupational Therapy Sixth Edition includes many valuable updates and enables the graduate student and clinical researcher to carry out a research study from the formulation of a research hypothesis to collecting analyzing and interpreting data in user friendly step by step procedures This Sixth Edition brings noteworthy changes improvements and enhancements including the following A thorough update of the published research in occupational therapy and health care Major revisions in all the chapters The addition of a new chapter on single case experimental research Updated research boxes and contemporary examples of both quantitative and qualitative research Updated compilation of tests and evaluations used by occupation therapists in research studies as outcome instruments and for clinical assessments Revision and additions to the glossary of terms and statistics Updated examples of the institutional review board application forms Updated landmarks in the history of occupational therapy Updated interfacing example with a popular statistical software including data organization analysis and interpretation Updated statistical tables Clinical Research in Occupational Therapy Sixth Edition is a valuable resource for students clinicians and researchers The text can be used as a complete self tutorial that provides the reader with the knowledge and skills to design and carry out a research project from hypothesis through data collection and analysis The text is written to help the reader evaluate the quality and rigor of research studies The Sixth Edition incorporates recent research in occupational therapy to help the reader design a feasible research project and understand and appreciate the literature of the field

Management of Operating Room Critical Events, An Issue of Anesthesiology Clinics, E-Book Alex Hannenberg,2020-11-10 This issue of Anesthesiology Clinics guest edited by Dr Alexander A Hannenberg focuses on Management of Critical Events This is one of four issues each year selected by the series consulting editor Dr Lee Fleisher Articles in this issue include but are not limited to Why We Fail to Rescue from Critical Events High Fidelity Simulation Training Alternatives to High Fidelity Simulation Training Tools to Improve our Capacity to Rescue Use of Cognitive Aids to Improve Management of Critical Events Real time debriefing after critical events Exploring the Gap between Principle and Reality Mass Casualty Events Obstetrical Hemorrhage Intraoperative

cardiac arrest The Lost Airway The Septic Patient and Oxygen Supply Failure **The Awards Almanac 1995** Miranda H. Ferrara,1995 **Scholarships, fellowships and loans :a guide to education-related financial aid programs for students and professionals ,2006** Who's who in American Nursing ,1996 Forthcoming Books Rose Arny,2003

Library & Information Science Abstracts ,1974 Paperbound Books in Print ,1971-07 *Directory of Grants in the Humanities 2003/2004 ,2003* Directory of Grants in the Humanities ,2004 **Strauss and Mayer's Emergency**

Department Management (eBook) Robert W. Strauss, Thom A. Mayer,2013-09-05 A Comprehensive Practical Text on Effectively Running an Emergency Department Emergency Department Management is a real world pragmatic guide designed to help emergency department managers efficiently handle the many complex issues that arise in this challenging clinical environment Written by professionals who have spent their entire careers in the service of emergency department patients this unique text delivers practical solutions to virtually any problem that may arise in running an emergency department or acute care center COMPLETE EXPERT COVERAGE OF EVERY IMPORTANT MANAGEMENT TOPIC INCLUDING Leadership Principles Operations Informatics Quality and Service Finance Reimbursement Contracts Legal and Regulatory Issues Malpractice Human Resources Emergency Department Management offers the guidance and expertise required to deliver consistent rapid high quality care It is the single best resource available to help you navigate the leadership challenges that arise daily in the emergency department *Associations Canada* Laura Mars,2010-02

Associations Canada covers Canadian organizations and international groups including industry commercial and professional associations registered charities and special interest and common interest organizations This annually revised compendium provide *Directory of Research Grants 2000* ABC-CLIO, LLC,1999 This directory provides accurate and current data on funds available from foundations private sources and state and local organizations as well as federal sources Facts are presented on nearly 6000 sources with all major disciplines and subject areas covered Included in applicable programme profiles are Catalog of Federal Domestic Assistance programme numbers and National Science Foundation announcement numbers Programmes listed include funding for basic research materials and equipment acquisition centres dissertation research faculty development and symposiums **Who's Who in American Nursing 1988-1989** Jeffrey Franz,1989

Perspectives ,2004

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web trees can be broadly classified as deciduous trees and coniferous trees the easiest way to identify whether a tree is deciduous or coniferous is on the basis of its leaves leaves of a deciduous tree are broad whereas that of a coniferous tree are extremely narrow and at times overlapping

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powered by sunlight the green substance in leaves called twig believe it or not twigs can be used to identify a tree as well this is a good thing because they are about all bark

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