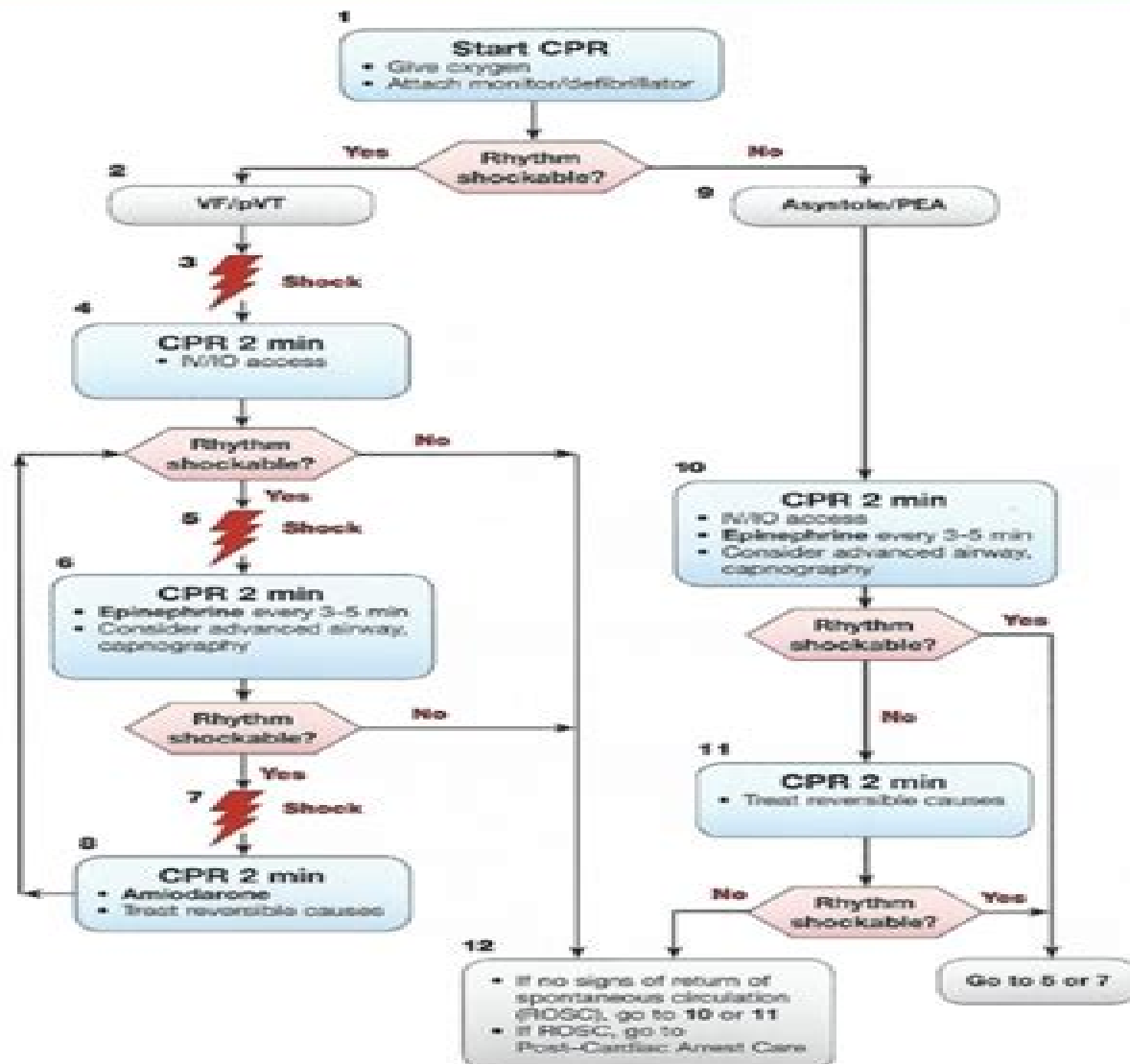


Adult Cardiac Arrest Algorithm—2015 Update

Advanced Cardiovascular Life Support



CPR Quality

- Push hard (at least 2 inches [5 cm]) and fast (100-120/min) and allow complete chest recoil.
- Minimize interruptions in compressions.
- Avoid excessive ventilation.
- Rotate compressor every 2 minutes, or sooner if fatigued.
- If no advanced airway, 30:2 compression-ventilation ratio.
- Quantitative waveform capnography
 - If P_{aCO_2} <10 mm Hg, attempt to improve CPR quality.
- Intra-arterial pressure
 - If relaxation phase (diastolic) pressure <20 mm Hg, attempt to improve CPR quality.

Shock Energy for Defibrillation

- Biphasic:** Manufacturer recommendation (eg, initial dose of 120-200 J; if unknown, use maximum available. Second and subsequent doses should be equivalent, and higher doses may be considered.
- Monophasic:** 360 J

Drug Therapy

- Epinephrine:** 1 mg IV/IO dose: 1 mg every 3-5 minutes
- Amiodarone:** 1 mg IV/IO dose: First dose: 300 mg bolus. Second dose: 150 mg

Advanced Airway

- Endotracheal intubation or supraglottic advanced airway
- Waveform capnography or capnometry to confirm and monitor ET tube placement
- Once advanced airway in place, give 1 breath every 5 seconds (10 breaths/min) with continuous chest compressions

Return of Spontaneous Circulation (ROSC)

- Pulse and blood pressure
- Abrupt sustained increase in P_{aCO_2} , typically >40 mm Hg
- Spontaneous arterial pressure waves with intra-arterial monitoring

Reversible Causes

- Hypovolemia
- Myocarditis
- Hydrogen ion (acidosis)
- Hypo-/hyperkalemia
- Hypothermia
- Tension pneumothorax
- Tamponade, cardiac
- Toxins
- Thrombosis, pulmonary
- Thrombosis, coronary



Acls Algorithm Provider Manual 2015

**Mick J. Sanders, Kim
McKenna, American Academy of
Orthopaedic Surgeons (AAOS)**



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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

Introduction to Basic Cardiac Dysrhythmias Sandra Atwood, Cheryl Stanton, Jenny Storey-Davenport, 2018-06-05 Introduction to Basic Cardiac Dysrhythmias Fifth Edition uses clear accessible language to explain how the heart functions and how to interpret ECGs Designed for use by the spectrum of EMS nursing and other healthcare professionals the Fifth Edition provides users with the critical knowledge needed to interpret dysrhythmias and determine the appropriate treatment The Fifth Edition includes Coverage of the 2015 ECC and CPR guidelines New content on basic 12 lead ECG interpretation Real life ECG strips to demonstrate each concept A variety of review tools including 200 additional practice rhythm strips 22 case studies and perforated review flashcards Numerous review quizzes with a variety of question formats as well as dysrhythmia practice strips and crossword puzzles A new modern design with the same familiar easy to follow feel

AACN Procedure Manual for Progressive and Critical Care - E-Book AACN, 2023-07-07 American Journal of Nursing AJN Book of the Year Awards 1st Place in Critical Care Emergency Nursing 2024 Selected for Doody's Core Titles 2024 with Essential Purchase designation in Critical Care Edited by the American Association of Critical Care Nurses and written by more than 100 critical care experts under the direction of Karen L Johnson PhD RN FAAN this definitive reference represents the gold standard of care for procedures performed in progressive and critical care settings It guides you through procedures common to the adult critical care environment including those performed by advanced practice nurses in an illustrated step by step format This edition now in full color features new procedures new and updated illustrations and updated content throughout reflecting the latest evidence based guidelines and national and international protocols Quick reference tabs make it easier than ever to locate content quickly This new edition integrates key AACN initiatives such as Practice Alerts and coordinates closely with the AACN Core Curriculum for Progressive and Critical Care Nursing 8th Edition Chapter specific quick links employ QR codes for instant access to high quality online references Edited by the American Association of Critical Care Nurses written by more than 100 expert critical care clinicians under the direction of Karen L

Johnson PhD RN FAAN and extensively reviewed by more than 100 additional critical care experts to ensure the accuracy and currency Comprehensive coverage includes all procedures commonly performed in progressive and critical care settings including those performed by advanced practice nurses indicated by an AP icon Straightforward step by step organization uses consistent headings to make following a procedure and finding the various supporting elements quick and easy with bulleted lists tables and detailed illustrations throughout to ensure that content is easy to reference and follow Rationales for all interventions in patient and family education assessment patient preparation procedure and monitoring help students understand the rationale for every step and a level of evidence is provided when a research base exists to substantiate an intervention giving insight into the strength of recommendations NEW Additional procedures new and updated illustrations and updated content throughout reflect the latest evidence based guidelines and national and international protocols NEW Full color design with color reference tabs enhances navigation plus full color illustrations reinforce understanding UPDATED Key AACN initiatives such as Practice Alerts are integrated throughout and content coordinates with the AACN Core Curriculum for Progressive and Critical Care Nursing 8th Edition NEW Chapter specific quick links via QR codes provide quick access to online references which have been updated and limited to the highest value sources *Sanders' Paramedic Textbook includes Navigate Advantage Access* Mick J. Sanders, Kim McKenna, American Academy of Orthopaedic Surgeons (AAOS), 2018-08-31 Sander s Paramedic Textbook Fifth Edition reflects the 2015 ECC and CPR guidelines and meets and exceeds the National EMS Education Standard for the Paramedic level Based on current medical evidence and written at a level that elicits higher order thinking the Fifth Edition provides a comprehensive learning tool for paramedic students and a reliable desk reference for emergency physicians **Respiratory Care: Principles and Practice** Dean R. Hess, Neil R. MacIntyre, William F. Galvin, 2020-01-15 More than an introductory text Respiratory Care Principles and Practice Fourth Edition by Dean Hess is a comprehensive resource will be referenced and utilized by students throughout their educational and professional careers **IAPS Textbook of Pediatric Surgery** Rajeev Redkar, Prakash Agarwal, V Raveenthiran, Shirin Joshi Gosavi, Anant Bangar, 2020-03-31 SECTION 1 GENERAL TOPICS IN PEDIATRIC SURGERY SECTION 2 TRAUMA AND ALLIED SECTION 3 HEAD FACE AND NECK SECTION 4 CHEST AND THORAX SECTION 5 ABDOMEN SECTION 6 ONCOLOGY SECTION 7 UROLOGY SECTION 8 TRANSPLANTATION SECTION 9 MISCELLANEOUS

Sanders' Paramedic Textbook Mick J. Sanders, Kim McKenna, American Academy of Orthopaedic Surgeons (AAOS), 2024-01-17 Featuring current print and digital content engaging illustrations and photos and accessible technology Sanders Paramedic Textbook Sixth Edition Premier Package with Flipped Classroom provides comprehensive resources and spurs critical thinking for paramedic students The new edition has been reviewed and endorsed by the American Academy of Orthopaedic Surgeons AAOS and the National Association of EMS Physicians NAEMSP and its content meets or exceeds the scientific recommendations by the International Liaison Committee on Resuscitation ILCOR and is consistent with the ECC

Guidelines as established by the American Heart Association and other resuscitation councils around the world Sanders robust resources for educators and students deliver teaching and learning solutions to best fit educators unique classroom needs Its single volume provides portability to learners while limiting repetition of content and its inclusion of detailed anatomy and physiology negate the need for additional reference texts Even more its emergency drug index incorporates detailed drug information in an easy to find location Developed by a renowned team of authors Sanders Paramedic Textbook Sixth Edition Premier Package with Flipped Classroom provides a comprehensive training program and curriculum to prepare students for long term success in the field and focuses on inclusion and diversity to engage every student Interested to hear what paramedic instructors and program coordinators think about the Sixth Edition Check out the reviews below from three of our early textbook reviewers Bill Comella Chris McLaughlin and Michael Simon Review Bill Comella Paramedic Program Coordinator First Responder Resiliency and Support Simulations Interactive Lectures Virtual Ride Alongs Lesson Guides 2025 2200 pages **Advanced Cardiovascular Life Support** ,2001 **Pharmacotherapy Handbook, Tenth Edition** Barbara G. Wells,Joseph T. DiPiro,Terry L. Schwinghammer,Cecily V. DiPiro,2017-08-11 MAKE DRUG THERAPY DECISIONS BASED ON THE BEST DATA POSSIBLE Pharmacotherapy Handbook Tenth Edition delivers the essential information students and practitioners need to quickly and confidently make drug therapy decisions for more than 140 of the diseases and disorders most commonly encountered in a clinical setting Featuring a convenient alphabetized presentation this handy guide utilizes text tables figures and treatment algorithms to make important drug data readily accessible and easily understood The consistent chapter organization consists of Disease state definition Concise review of relevant pathophysiology Clinical presentation Diagnosis Treatment Evaluation of Therapeutic Outcomes Appendices include Allergic and Pseudoallergic Drug Reactions Geriatrics Drug Induced Hematologic Disorders Drug Induced Liver Disease Drug Induced Pulmonary Disease Drug Induced Kidney Disease You will find this to be the ideal carry anywhere companion to Pharmacotherapy A Pathophysiologic Approach Tenth Edition by Joseph DiPiro et al **LANGE Q&A Physician Assistant Examination, Seventh Edition** Rachel Carlson,Albert F. Simon,Bob McMullen,2015-12-06 The most complete question and answer review for the PANCE and PANRE now fully revised and updated Lange Q A Physician Assistant Examination is filled with over 1 300 Q As that help you gear up for the PANCE and PANRE All questions appear in the style you will see on the actual exam and are accompanied by a detailed answer explanation and references In addition each question in this skill sharpening guide is conveniently organized by organ system or specialty area to help you quickly zero in on areas of strength and weakness A valuable opening chapter on test taking skills and techniques provides score boosting hints on how to best prepare for taking the exam Also included with the book is access to one complete online practice test that simulates the test taking experience The content of Lange Q A Physician Assistant Examination is reviewed by a team of PA students for accuracy and relevancy and is organized by organ system and specialty areas of practice The seventh edition of this first rate

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Mastenbjörk,2021-08-20 The content in this handbook is in compliance with the latest 2020 guidelines recently released by the American Heart Association AHA All the protocols illustrated here are based on up to date evidence These guidelines are updated every 5 years This handbook is designed for all medical professionals who undergo ACLS training It aims to establish a sound understanding of the principles of ACLS and the latest guidelines **Advanced Cardiac Life Support (ACLS) Provider Handbook** Karl Disque,2016-11-14 The Save a Life Initiative has just released its newest course Advanced Cardiac Life Support ACLS This manual is based on the 2015 2020 Advanced Cardiac Life Support guidelines published by the American Heart Association The Advanced Cardiac Life Support ACLS Provider Handbook is a comprehensive resource intended for health care professionals currently enrolled in an Advanced Cardiac Life Support Certification or Recertification Course It serves as the primary training material for ACLS Certification and Recertification courses Although it is primarily intended for use during their courses the handbook was also created to serve as daily reference material for health care professionals Information covered in the handbook includes ACLS instruction for adults and children through multiple case scenarios Case scenarios include but are not limited to respiratory arrest ventricular fibrillation and bradycardia Specific ACLS Algorithms and more are also included within the handbook All material included in this handbook is delivered in a manner meant to enhance learning in the most comprehensive and convenient way possible **Pharmacotherapy: A Pathophysiologic Approach, Tenth Edition** Joseph T. DiPiro,Robert L. Talbert,Gary C. Yee,Gary R. Matzke,Barbara G. Wells,L. Michael Posey,2017-01-23 The most comprehensive text available on the use of evidence based medication therapies for optimal patient outcomes updated with the latest breakthroughs and guidelines A Doody s Core Title for 2019 Pharmacotherapy A Pathophysiologic Approach is written to help you advance the quality of patient care through evidence based medication therapy derived from sound pharmacotherapeutic principles The scope of this trusted classic goes beyond drug indications and dosages to include the initial selection proper administration and monitoring of drugs You will find everything you need to provide safe effective drug therapy across the full range of therapeutic categories Presented in full color the Tenth Edition is enriched by more than 300 expert contributors and every chapter has been updated to reflect the latest in evidence based information and recommendations This sweeping updates include tables charts algorithms and

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care professionals currently enrolled in an ACLS Certification or classroom ACLS Course The ACLS Course was also created to serve as daily reference material for health care professionals who participate in the management of cardiopulmonary arrest or other cardiovascular emergencies This includes personnel in emergency response emergency medicine intensive care and critical care units such as physicians nurses and paramedics as well as others who need an ACLS course completion card for job or other requirements The Advanced Cardiovascular Life Support ACLS Provider Manual represents a series of memorized steps which when performed in sequence can greatly improve survival rates of patients who have respiratory and or cardiac arrest Specific ACLS Algorithms and more are also included within this reference guidelines All material included in ACLS provider manual is delivered in a manner meant to enhance learning in the most comprehensive and convenient way possible

ACLS Provider Manual Msn Jane John-Nwankwo Rn,2014-03-30 What you will learn from this book Team Resuscitation Concepts What Actually Happens in Mega Codes BLS ACLS Surveys Acute Coronary Syndrome Management Stroke Management Recognition of Basic Dysrhythmias Cardiovascular Medications Plus 160 Review Questions

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