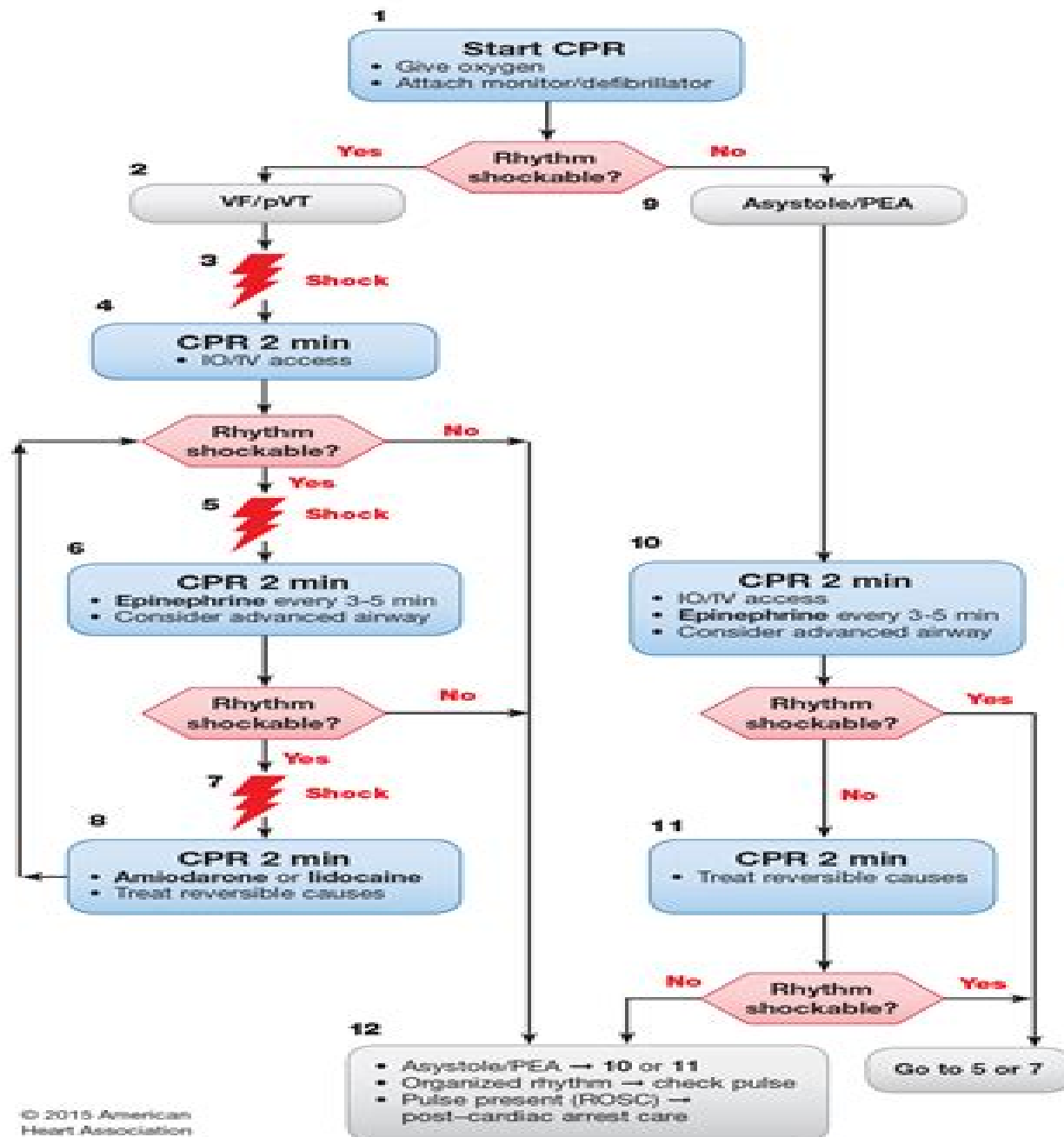


Pediatric Cardiac Arrest Algorithm – 2015 Update



CPR Quality

- Push hard ($\geq 1/2$ of anteroposterior diameter of chest) 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, 15:2 compression-ventilation ratio.

Shock Energy for Defibrillation

First shock 2 J/kg, second shock 4 J/kg, subsequent shocks ≥ 4 J/kg, maximum 10 J/kg or adult dose

Drug Therapy

- **Epinephrine IO/IV dose:** 0.01 mg/kg (0.1 mL/kg of 1:10 000 concentration). Repeat every 3-5 minutes. If no IO/IV access, may give endotracheal dose: 0.1 mg/kg (0.1 mL/kg of 1:1000 concentration).
- **Amiodarone IO/IV dose:** 5 mg/kg bolus during cardiac arrest. May repeat up to 2 times for refractory VF/pulseless VT.
- **Lidocaine IO/IV dose:** Initial: 1 mg/kg loading dose. Maintenance: 20-50 mcg/kg per minute infusion (repeat bolus dose if infusion initiated > 15 minutes after initial bolus therapy).

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 6 seconds (10 breaths/min) with continuous chest compressions

Return of Spontaneous Circulation (ROSC)

- Pulse and blood pressure
- Spontaneous arterial pressure waves with intra-arterial monitoring

Reversible Causes

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

Pals Guidelines 2014

Peter J. Davis, Franklyn P. Cladis



Pals Guidelines 2014:

Clinical Guidelines for Advanced Practice Nursing Karen G. Duderstadt, Rebekah Kaplan, 2016-03-17 *Clinical Guidelines for Advanced Practice Nursing An Interdisciplinary Approach Third Edition* is an accessible and practical reference designed to help nurses and students with daily clinical decision making. Written in collaboration with certified nurse midwives, clinical nurse specialists, nurse practitioners, nutritionists, pharmacists, and physicians, it fosters a team approach to health care. Divided into four areas: Pediatrics, Gynecology, Obstetrics, and Adult General Medicine, and following a lifespan approach, it utilizes the S O A P Subjective Objective Assessment Plan format. Additionally, the authors explore complex chronic disease management, health promotion across the lifespan, and professional and legal issues such as reimbursement, billing, and the legal scope of practice. The Third Edition has a keen focus on gerontology to accommodate the AGNP specialty and to better assist the student or clinician in caring for the aging population. The authors follow the across the life span approach and focus on common complete disorders. Certain chapters have been revised, and new chapters have been added, which include Health Maintenance for Older Adults, Frailty, Common Gerontology Syndromes, Cancer Survivorship, Lipid Disorders, Acne, and a pediatrics section. Please note that the 2016 CDC Guidelines for prescribing opioids for chronic pain in the United States were not yet available at the time the authors were updating the Third Edition. See the Instructor Resources tab to read a note from the authors about their recommendations for resources around these guidelines.

Rosen's Emergency Medicine - Concepts and Clinical Practice E-Book Ron Walls, Robert Hockberger, Marianne Gausche-Hill, 2017-03-09 Since its revolutionary first edition in 1983, *Rosen's Emergency Medicine* set the standard for reliable, accessible, and comprehensive information to guide the clinical practice of emergency medicine. Generations of emergency medicine residents and practitioners have relied on *Rosen's* as the source for current information across the spectrum of emergency medicine practice. The 9th Edition continues this tradition of excellence, offering the unparalleled clarity and authority you've come to expect from the award-winning leader in the field. Throughout the text, content is now more concise, clinically relevant, and accessible than ever before, meeting the needs of today's increasingly busy emergency medicine practitioner. Delivers clear, precise information, focused writing, and references relevant, concise information, and generous use of illustrations provide definitive guidance for every emergency situation. Offers the most immediately relevant content of any emergency medicine reference, providing diagnostic and treatment recommendations with clear indications and preferred actions. Presents the expertise and knowledge of a new generation of editors who bring fresh insights and new perspectives to the table. Includes more than 550 new figures, including new anatomy drawings, new graphs, and algorithms, and new photos. Provides diligently updated content throughout, based on only the most recent and relevant medical literature. Provides improved organization in sections to enhance navigation, and six new chapters: Airway Management for the Pediatric Patient, Procedural Sedation and Analgesia for the Pediatric Patient, Drug Therapy for the Pediatric Patient, Co-Morbid Medical Emergencies During Pregnancy.

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Chiumello,2022-11-15 This book offers an essential guide to managing the most debated hot topics of practical interest in anesthesia and intensive care Part I reviews the state of the art in issues concerning both intensive care medicine and anesthesia such as perioperative medicine acute liver failure anesthesia monitoring and ERAS in hepatic surgery Part II focuses on microbiome in critically ill patients on COVID 19 aspects and related issues on sepsis in pediatric patients and ventilatory management in obese patients Written by leading experts and including updated references it provides a comprehensive easy to follow update on anesthesia and intensive care The book clearly explains complex topics offering practicing clinicians valuable insights into the latest recommendations and evidence in the field while at the same time making it a vital resource for students new to the fields of anesthesia and intensive care **Fleisher & Ludwig's Textbook of Pediatric Emergency Medicine** Richard G. Bachur,Kathy N. Shaw,2015-11-11 Before the 1st edition of the Textbook of Pediatric Emergency Medicine published there was no official pediatric emergency medicine subspecialty in either pediatrics or emergency medicine This book defined many of the treatments testing modalities procedural techniques and approaches to care for the ill and injured child As such it was written with both the pediatrician and the emergency physician in mind The Textbook of Pediatric Emergency Medicine has an entirely new editorial board and templated chapters focusing on evidence based diagnosis and management of pediatric patients in the ED The book s content has been rewritten to eliminate and eliminate redundancy creating succinct sections that pertain to patient care in the ED Templated chapters include Clinical Outcomes Goals of Therapy Current Evidence Clinical Considerations Clinical Recognition Triage Initial Assessment Management Diagnostic Testing Clinical indications for discharge or admission including parental instructions References In the ED nurses and physicians work closely as a paired team thus this edition reflects that partnership and offers content tailored to it Online ancillaries found in the bundled eBook include Learning Links for nursing considerations and clinical pathways that outline the key steps to take when managing critically ill patients **Patient Safety and Quality in Pediatric Hematology/Oncology and Stem Cell Transplantation** Christopher E. Dandoy,Joanne M. Hilden,Amy L. Billett,Brigitta U. Mueller,2017-06-06 This volume provides a concise yet comprehensive overview of patient safety issues and quality improvement for the pediatric hematology oncology stem cell transplant practice The book reviews patient safety in complex healthcare delivery systems delineates the various safety issues affecting pediatric hematology oncology patients and discusses quality improvement methods and improvement science that allow the reader to implement and sustain change in their home institution The text also explores mechanisms to measure quality and safety outcomes allowing the provider to implement proven processes shown to minimize harm to patients Written by experts in the field Patient Safety and Quality in

Pediatric Hematology Oncology and Stem Cell Transplantation is a valuable resource for healthcare professionals treating pediatric hematology oncology and stem cell transplant patients **Practical Approach to Pediatric Intensive Care** Praveen Khilnani, 2023-10-31 This book is a comprehensive guide to all aspects of paediatric intensive care The fourth edition has been fully revised to include the latest guidelines and advances in technology The extensive text of 1200 pages explains practical and surgical issues with thorough coverage of respiratory and cardiac care Other conditions specific to different systems of the body are also discussed endocrine gastrointestinal neurological and more Several chapters are dedicated to environmental injuries including burns electric shock heat disorders near drowning and poisoning The book concludes with discussion on psychosocial issues ethical and medicolegal aspects training research quality improvement and use of therapeutic drugs in paediatric intensive care The text is highly illustrated with clinical photographs diagrams and flowcharts Key points Comprehensive guide to all aspects of paediatric intensive care Fully revised fourth edition featuring latest guidelines and technological advances Extensive text of 1200 pages further enhanced by clinical photographs diagrams and flowcharts Previous edition 9789351527398 published in 2015 **Critical Complications In Pediatric Oncology and Hematopoietic Cell Transplant, volume II** Asya Agulnik, Jennifer Ann McArthur, Kris Michael Mahadeo, Marie E. Steiner, 2024-11-19 Pediatric oncology and hematopoietic cell transplant HCT patients with a critical illness are a particularly challenging population with a unique presentation diagnosis and management One in every three to four children with cancer will require admission to the Pediatric Intensive Care Unit PICU during the course of their treatment Providing optimum care for these patients involves dedicated multidisciplinary collaboration to provide timely and appropriate management Onco critical care is a growing field of expertise for the care of this high acuity patient population Recent work in this field has focused on sepsis respiratory complications and multi organ failure in HCT patients demonstrating significantly higher morbidity and mortality compared to other critically ill pediatric patients For the past decade the HCT oncology subgroup of the Pediatric Acute Lung Injury and Sepsis Investigators PALISI Network has fostered both research and clinical collaborations between oncologists transplanters and critical care physicians with the goal to improve outcomes in critically ill oncology and HCT patients Contributors to this Research Topic will be actively recruited from this network

Pediatric Emergency Medicine, An Issue of Pediatric Clinics of North America Prashant Mahajan, 2018-11-16 Clinical decision making in the emergency department Recent advances in the recognition evaluation and management of pediatric sepsis Evaluation and management of the adult patient presenting to a pediatric ED Critical care in the pediatric ED Point of care testing in the ED Implications impact and future directions Child abuse and conditions that mimic them Indications and interpretation of common investigations tests in the ED Recent advances in pediatric concussion and mild traumatic brain injury Pediatric emergency care Impact on healthcare and implications for policy Clinical decision rules in the pediatric ED Pediatric urgent care The good the bad and the ugly Advances in medical education and implications for the pediatric ED

workforce Quality and safety in pediatric ED Optimizing resources and impact of lean processes on ED operations Pediatric readiness and disaster management Recent advances in technology and its applications to pediatric emergency care

Fuhrman & Zimmerman's Pediatric Critical Care E-Book Jerry J. Zimmerman, Alexandre T. Rotta, 2021-02-05 In the highly specialized field of caring for children in the PICU Fuhrman and Zimmerman's Pediatric Critical Care is the definitive reference for all members of the pediatric intensive care team Drs Jerry J Zimmerman and Alexandre T Rotta along with an expert team of editors and contributors from around the world have carefully updated the 6th Edition of this highly regarded text to bring you the most authoritative and useful information on today's pediatric critical care everything from basic science to clinical applications Contains highly readable concise chapters with hundreds of useful photos diagrams algorithms and clinical pearls Uses a clear logical organ system approach that allows you to focus on the development function and treatment of a wide range of disease entities Features more international authors and expanded coverage of global topics including pandemics sepsis treatment in underserved communities specific global health concerns by region Covers current trends in sepsis related mortality and acute care after sepsis as well as new device applications for pediatric patients Provides ultrasound videos and more than 500 board style review questions and answers on Expert Consult Enhanced eBook version included with purchase Your enhanced eBook allows you to access all of the text figures and references from the book on a variety of devices

Smith's Anesthesia for Infants and Children E-Book Peter J. Davis, Franklyn P. Cladis, 2021-11-30 Written and edited by renowned experts in pediatric anesthesia Smith's Anesthesia for Infants and Children provides clear concise guidance on effective perioperative care for any type of pediatric surgery The 10th Edition contains significantly revised content throughout bringing you fully up to date with recent advances in clinical and basic science that have led to changes in today's clinical practice Offers comprehensive coverage of physiology pharmacology and clinical anesthetic management of infants and children of all ages Contains new chapters on Airway Physiology and Development Normal and Difficult Airway Management Ultrasound Acute Pain Management Chronic Pain Management Palliative Pain Management Infectious Diseases and Education plus extensively revised content on cardiovascular physiology induction maintenance and recovery organ transplantation and more Features more than 100 video demonstrations including regional anesthesia videos echocardiograms of congenital heart lesions anatomic dissections of various congenital heart specimens with audio explanations various pediatric surgical operative procedures airway management and much more Provides outstanding visual guidance throughout including full color photographs drawings graphs and charts and radiographic images Includes quick reference appendices online drug dosages growth curves normal values for pulmonary function tests and a listing of common and uncommon syndromes Provides an interactive question bank online for review and self assessment Enhanced eBook version included with purchase Your enhanced eBook allows you to access all of the text figures and references from the book on a variety of devices

Guidelines for the management of

symptomatic sexually transmitted infections World Health Organization, 2021-07-15 The WHO global health sector strategy on sexually transmitted infections 2016-2021 endorsed by the World Health Assembly in 2016 aims to eliminate STIs as a public health threat by 2030 In 2019 WHO published estimates of new cases of chlamydia gonorrhoea syphilis and trichomoniasis Recent changes in the epidemiology of STIs and progress in prevention diagnosis and treatment of STIs and HIV have necessitated changes in approaches to STI prevention and management To address these STIs the most widely used approach in clinical settings is the syndromic management of STIs In most resource limited settings the syndromic management flow charts are still the standard of care where laboratory diagnosis is not available or is hard to access The objectives of these guidelines are to provide updated evidence informed clinical and practical recommendations on the case management of people with symptoms of STIs and to support countries in updating their national guidelines for the case management of people with symptoms of STIs These guidelines include the management of symptomatic infections related to urethral discharge syndrome including persistent urethral discharge syndrome vaginal discharge syndrome including persistent vaginal discharge anorectal infection genital ulcer disease syndrome and lower abdominal pain syndrome These guidelines are intended for programme managers for STI prevention and control at the national level and the health care providers at the frontline primary secondary and tertiary health care **"Code of Massachusetts regulations, 2014"**

, 2014 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 **Recent Advances in Paediatrics: 27** Ian Maconochie, 2015-09-26 Recent Advances in Paediatrics 27 features a collection of in depth reviews of the latest developments in the field Written in an accessible and easy to read format and featuring such topics as developmental dysplasia of the hips paediatric simulation training and paediatric sports medicine each chapter provides a comprehensive overview and emphasises the salient points of interest This latest volume in the series is an invaluable resource for busy clinicians and those sitting MRCPCH membership examinations 12 chapters summarising important recent advances within the field of paediatrics All topics are written in a practical and clinically relevant manner further enhanced by the key points for clinical practice sections at the end of each chapter Provides an effective exam revision tool for the DCH and MRCPCH All chapters written by expert authors ensuring authoritative and accurate content Full colour photographs throughout *Rudolph's Pediatrics, 23rd Edition* Mark W. Kline, Susan M. Blaney, Angelo P. Giardino, Jordan S. Orange, Daniel J. Penny, Gordon E. Schutze, Lara S.

Shekerdemian, Abraham M. Rudolph, Colin D. Rudolph, 2018-08-21 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product The landmark pediatrics reference completely reinvented by an all new team of editors Rudolph's Pediatrics has virtually defined the pediatric field for over a century becoming one of the most important and well respected pediatrics texts ever published Renowned for its balance of clinical features and treatment of disease with underlying biological principles

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Pediatric Board Study Guide Osama I. Naga,2019-11-06 Building upon the highly successful 1st edition this book is a comprehensive review designed to prepare pediatric residents fellows and pediatricians for the General Pediatrics Certifying Examination and for the American Board of Pediatrics Maintenance of Certification Pediatric Board Study Guide A Last Minute Review 2nd edition covers all aspects of pediatric medicine each chapter has been updated according to the most recent content specifications provided by the ABP The 2nd edition provides more illustrations diagrams radiology images and clinical case scenarios to further assist readers in reviewing pediatric subspecialties New chapter topics include nutrition sports medicine patient safety quality improvement ethics and pharmacology Finally the book closes with a Last Minute Review of high yield cases arranged in the same sequence as the chapters providing readers with a concise study guide of critical cases and conditions Pediatric residents and fellows preparing for the board examination pediatricians and pediatric subspecialists preparing for certification maintenance will find Pediatric Board Study Guide A Last Minute Review 2nd edition easy to use and comprehensive making it the ideal resource and study tool **Nurse Anesthesia - E-Book** Sass Elisha,Jeremy S. Heiner,John J. Nagelhout,2022-01-23 NEW Updated content reflects the latest changes in the industry NEW Two new chapters include Crisis Resource Management and Patient Safety and Infection Control and Prevention **IAP**

Textbook of Tropical Diseases Raju C Shah,2020-03-31 SECTION 1 Epidemiology of Tropical Diseases SECTION 2 Nutritional Disorders in the Tropics SECTION 3 Tropical Neonatal Problems SECTION 4 Bacterial and Rickettsial Infections SECTION 5 Mycobacterial Infections SECTION 6 Viral Infections SECTION 7 Parasitic and Protozoal Infections Infestations SECTION 8 Fungal Infections SECTION 9 Noncommunicable Diseases in the Tropics SECTION 10 Pediatric Subspecialties in Tropics SECTION 11 Accidents and Poisoning in the Tropics SECTION 12 Emergencies and Intensive Care in the Tropics SECTION 13 Environmental Issues SECTION 14 Miscellaneous Issues **AACN Procedure Manual for High Acuity, Progressive, and Critical Care - E-Book** AACN,2016-12-02 NEW Updated content throughout reflects the latest evidence based guidelines and national and international protocols NEW 17 new procedures reflect major additions to nursing practice in high acuity progressive and critical care settings NEW Engaging new illustrations of procedures equipment and techniques are integrated throughout **Update in Pediatrics** Shalea Piteau,2018-04-16 This concise and comprehensive volume updates health professionals on recent advances in the field of pediatrics It includes chapters in every subspecialty of pediatrics such as critical care development emergency medicine and genetics Ranging from traditional disciplines such as infectious disease and cardiology to more current disciplines such as adolescent medicine metabolics and genetics this is an indispensable guide for the busy clinician who wishes to stay up to date with latest advances in the field Through the use of summaries and bullet points the book concisely describes the latest recommendations and guidelines in pediatrics and provides a good overview of the available technology for each subspecialty The team of authors is made up of experienced clinicians and researchers in their respective fields This book appeals to pediatricians family doctors nurses and nurse practitioners allied health professionals and health researchers **Adult-Gerontology Practice Guidelines** Jill C. Cash,Cheryl A. Glass,2015-06-26 Print CourseSmart

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