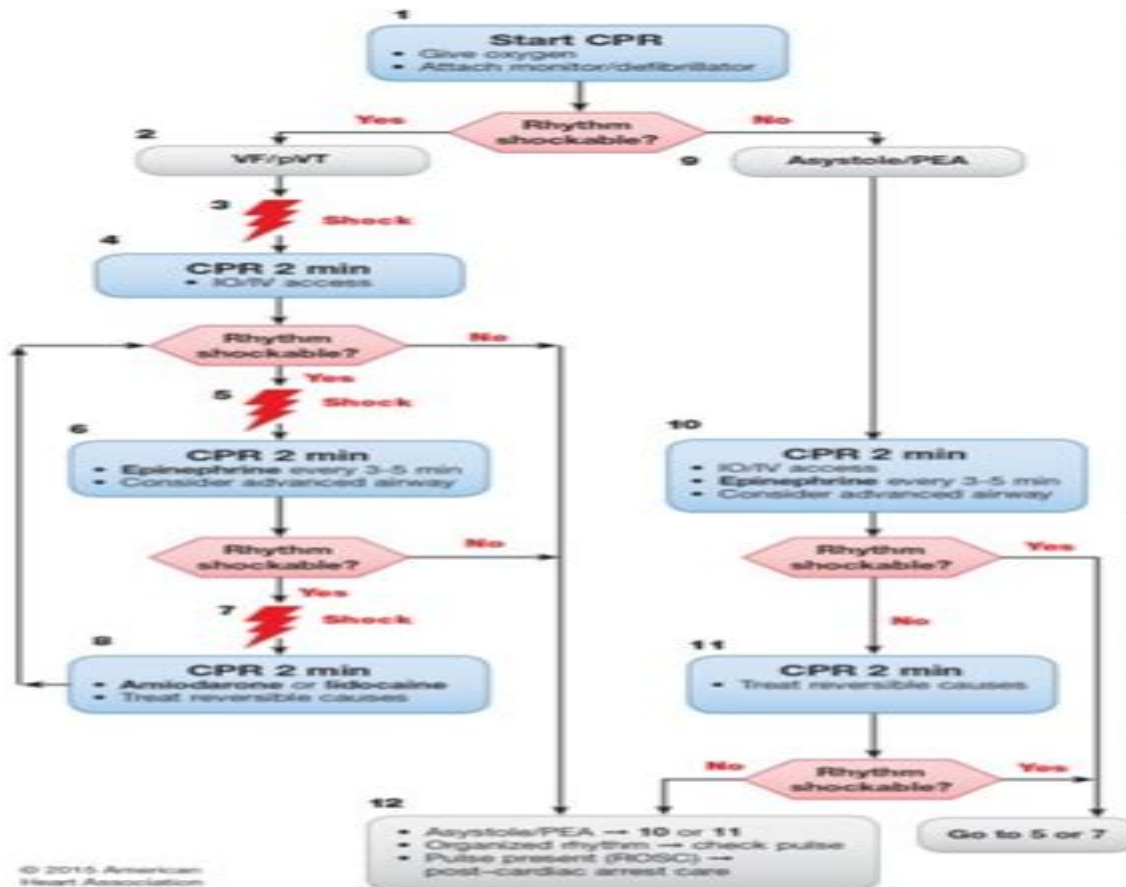


PEDIATRIC CARDIAC ARREST ALGORITHM

Pediatric Cardiac Arrest Algorithm—2015 Update



CPRI Quality

- Push hard (2/3 of anteroposterior diameter of chest) and fast (100-120/min) and allow complete chest recoil.
- Minimize interruptions in compressions.
- Avoid excessive ventilation.
- Rotate compressors 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 IOTV dose:**
0.01 mg/kg (0.1 mL/kg of 1:10 000 concentration). Repeat every 3-5 minutes.
If no IOTV access, may give endotracheal dose: 0.1 mg/kg (0.1 mL/kg of 1:1000 concentration).
- **Amiodarone IOTV dose:**
5 mg/kg bolus during cardiac arrest. May repeat up to 2 times for refractory VT/pulseless VT.
- **Lidocaine IOTV dose:**
Initial: 1 mg/kg loading dose.
Maintenance: 20-50 mcg/kg per minute infusion (repeat bolus dose if infusion not started 1-1.5 mg 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 bubble of 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 Courses

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

Pals Algorithms 2015 Study Guide

Karl Disque



Pals Algorithms 2015 Study Guide:

Pediatric Advanced Life Support Study Guide Aehlert, 2017-01-16 Fully revised to meet the 2015 CPR ECC Guidelines and to prepare students and professionals for PALS certification and recertification Pediatric Advanced Life Support Study Guide Fourth Edition provides a clear and complete approach to managing pediatric emergencies Designed for use by the spectrum of healthcare professionals the Fourth Edition provides users with the critical information needed to approach real life pediatric emergencies The Fourth Edition includes End of chapter quizzes with answers and objectives as well as a comprehensive posttest to gauge material comprehension Case studies at the end of appropriate chapters for practice with real world material application Clear procedural explanations written in descriptive yet accessible language A refined Table of Contents including standalone chapters on cardiac dysrhythmias for focused learning and study PALS Pearl boxes for text to everyday clinical application In text references for deeper research if desired **The Emergency Department**

Technician Handbook, E-Book Robert Shesser, Ali Pourmand, Amy Keim, 2022-10-20 Emergency Department Technicians EDTs play a vital role in actively supporting the medical team in today's hospitals and the role continues to expand in light of staffing shortages and increased emergency department volumes The Emergency Department Technician Handbook is a reliable comprehensive resource in this increasingly important field filling a timely need in EDT workforce development for both technicians and educators Concise readable text along with high quality clinical photos and a video library that depict procedures and patient positioning make this new handbook a must have resource in every emergency department Provides quick convenient access to practical guidance and everyday answers in an easy to read outline format Discusses key topics such as patient flow and assessment in the ED triage and point of care testing Advises on best practices for wound care including cleansing dressing and splinting a wound as well as how to set up a suture tray and advanced wound care techniques Covers essential imaging based procedures including the use of ultrasound guided IV Features a companion video library with a range of clips depicting how to perform procedures and patient examinations in real time *Critical Heart Disease in Infants and Children E-Book* Ross M. Ungerleider, Kristen Nelson McMillan, David S. Cooper, Jon N.

Meliones, Jeffrey Jacobs, 2018-09-26 Selected for Doody's Core Titles 2024 with Essential Purchase designation in Pediatric Surgery Now in brilliant full color and reflecting recent significant changes in the field Critical Heart Disease in Infants and Children 3rd Edition keeps you abreast of the skills and knowledge required to safely care for children with congenital and acquired heart disease in the ICU Pediatric intensivists cardiologists cardiac surgeons and anesthesiologists from leading centers around the world provide a well rounded perspective on basic scientific principles medical and pharmacologic treatments surgical techniques and equipment Features comprehensive updates throughout the text including indications techniques potential complications in perioperative management of patients and surgical techniques for congenital heart disease Covers recent advances in the treatment of pulmonary hypertension developments in mechanical assist devices heart

and lung transplantation and interventional cardiac catheterization Features an all new full color format that speeds navigation and helps clarify complex concepts Contains 27 new chapters with an emphasis on the team approach to patient care in the ICU including creating multidisciplinary teams quality and performance improvement training and challenges and solutions to developing a cohesive team environment Includes a detailed chapter on bedside ultrasound walking you through the techniques you re most likely to encounter in the ICU Employs well documented tables text boxes and algorithms to make clinical information easy to access and more than two dozen video clips provide a more complete understanding of echocardiography imaging modalities pulmonary hypertension and more Describes the basic pharmacology and clinical applications of new pharmacologic agents Examines issues affecting adults with congenital heart disease 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 Offers four completely new chapters Cardiac Trauma Congenital Heart Disease in the Adult Congenitally Corrected Transposition of the Great Arteries and Outcome Evaluation Describes the basic pharmacology and clinical applications of all of the new pharmacologic agents Details important refinements and developments in surgical techniques including the Ross pulmonary autograft replacement of the aortic valve video assisted fluoroscopy and the extracardiac Fontan connection and discusses their indications and potential complications Explores the latest advances in the treatment of pulmonary hypertension new developments in mechanical assist devices heart and lung transplantation and interventional cardiac catheterization Examines issues affecting adults with congenital heart disease

Critical Care Medicine Review: 1000 Questions and Answers Abraham Sonny,Edward A Bittner,Ryan J. Horvath,Sheri Berg,2019-09-16 Covering all four critical care board exams anesthesiology surgery internal medicine and neurology Critical Care Medicine Review 1000 Questions and Answers prepares you for exam success as well as clinical practice in today s ICU This full color easy to use review tool provides challenging case studies relevant images multiple choice board style questions rationales for correct and incorrect answers and references for every question Edited by instructors of anesthesia and critical care from Harvard Medical School and Massachusetts General Hospital this comprehensive resource is an ideal study guide for critical care fellows recertifying practitioners and CCRNs

Recent Advances in Material, Manufacturing, and Machine Learning Rajiv Gupta,Devendra Deshmukh,Awanikumar P. Patil,Naveen Kumar Shrivastava,Jayant Giri,R.B. Chadge,2023-05-26 The role of manufacturing in a country s economy and societal development has long been established through their wealth generating capabilities To enhance and widen our knowledge of materials and to increase innovation and responsiveness to ever increasing international needs more in depth studies of functionally graded materials tailor made materials recent advancements in manufacturing processes and new design philosophies are needed at present The objective of this volume is to bring together experts from academic institutions industries and research organizations and professional engineers for sharing of knowledge expertise and experience in the emerging trends related to design advanced materials processing and

characterization and advanced manufacturing processes Bioinformatics of Genome Regulation, Volume II Yuriy L. Orlov, Ancha Baranova, Tatiana V. Tatarinova, Anastasia A. Anashkina, 2022-01-27 *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 *Strange and Schafermeyer's Pediatric Emergency Medicine, Fifth Edition* Robert W. Schafermeyer, Milton Tenenbein, Charles G. Macias, Ghazala Sharieff, Loren Yamamoto, 2018-09-22 Concise current need to know coverage of emergency medicine in children presented in full color Endorsed by the American College of Emergency Physicians a comprehensive and current resource for anyone who cares for children in an acute setting from the office to the emergency department Its presentation is straightforward and the information is easy to read and assimilate It will be a valuable resource for those in the field of pediatric emergency medicine as well as other practitioners who occasionally care for sick children JAMA reviewing an earlier edition This clinically focused guide covers the entire field of pediatric emergency medicine Featuring a strong focus on practical need to know information Pediatric Emergency Medicine Fifth Edition is bolstered by numerous full color images bulleted High Yield Facts at the beginning of each chapter nearly 100 diagnostic and treatment algorithms and treatment tables with drug dosages Endorsed by the American College of Emergency Physicians this book is perfect for use in the emergency department or the pediatric clinic FEATURES Chapters open with bulleted High Yield Facts followed by just enough pathophysiology for understanding and continue with a focus on what needs to be done to protect and save the child Broad scope spans the full spectrum of pediatric emergencies from trauma care to psychosocial emergencies NEW CHAPTER on Brief Resolved Unexplained Events BRUE Opens with an important symptom based section of Cardinal Presentations that familiarizes you with crucial life saving protocols Covers all major categories of disease that present in children on an urgent or emergent basis If you are in need of a very readable and easily accessible evidence based text written to help you provide high quality emergency medical care to children your search ends here Documentation Abstracts ,1989 *Books in Print Supplement* ,2002 **Electronics & Wireless World** ,1989 Electronics World + Wireless World ,1989 Forthcoming Books Rose Arny, 1993 *Pediatric Advanced Life Support (PALS) Provider Handbook* Karl Disque, 2016-11-14 The Save a Life Initiative has just released its newest course Pediatric Advanced Life Support PALS This

manual is based on the 2015 2020 Pediatric Advanced Life Support guidelines published by the American Heart Association The Pediatric Advanced Life Support PALS Provider Handbook is a comprehensive resource intended for health care professionals currently enrolled in a Pediatric Advanced Life Support Certification or Recertification Course It serves as the primary training material for PALS Certification and Recertification courses Although it is primarily intended for use during certification courses the handbook was also created to serve as daily reference material for health care professionals Information covered in the handbook includes EKG and electrical therapy review pediatric respiratory failure and more Specific PALS 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 *Summary of Algorithms to Live By* Instaread,2016-09-07 *Summary of Algorithms to Live By* by Brian Christian and Tom Griffiths Includes Analysis Preview Algorithms to Live By by Brian Christian and Tom Griffiths is an immersive look at the history and development of several algorithms used to solve computer science problems It also considers potential applications of algorithms in human life including memory storage and network communication One such computer science problem is the optimal stopping problem the mathematical puzzle for determining how long to review options and gather data before settling on the best choice available The algorithm based on statistical analysis shows that there is an optimal place or time to stop researching options or solutions to a problem and instead commit to the next option that s just as good as those already considered Similarly the mathematical way to decide whether to try something new or stick with the familiar choice is expressed by the Gittins Index score of any given alternative It values a complete unknown more highly than a PLEASE NOTE This is key takeaways and analysis of the book and NOT the original book Inside this Instaread *Summary of Algorithms to Live By* by Brian Christian and Tom Griffiths Includes Analysis Overview of the Book Important People Key Takeaways Analysis of Key Takeaways About the Author With Instaread you can get the key takeaways summary and analysis of a book in 15 minutes We read every chapter identify the key takeaways and analyze them for your convenience Visit our website at instaread co

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