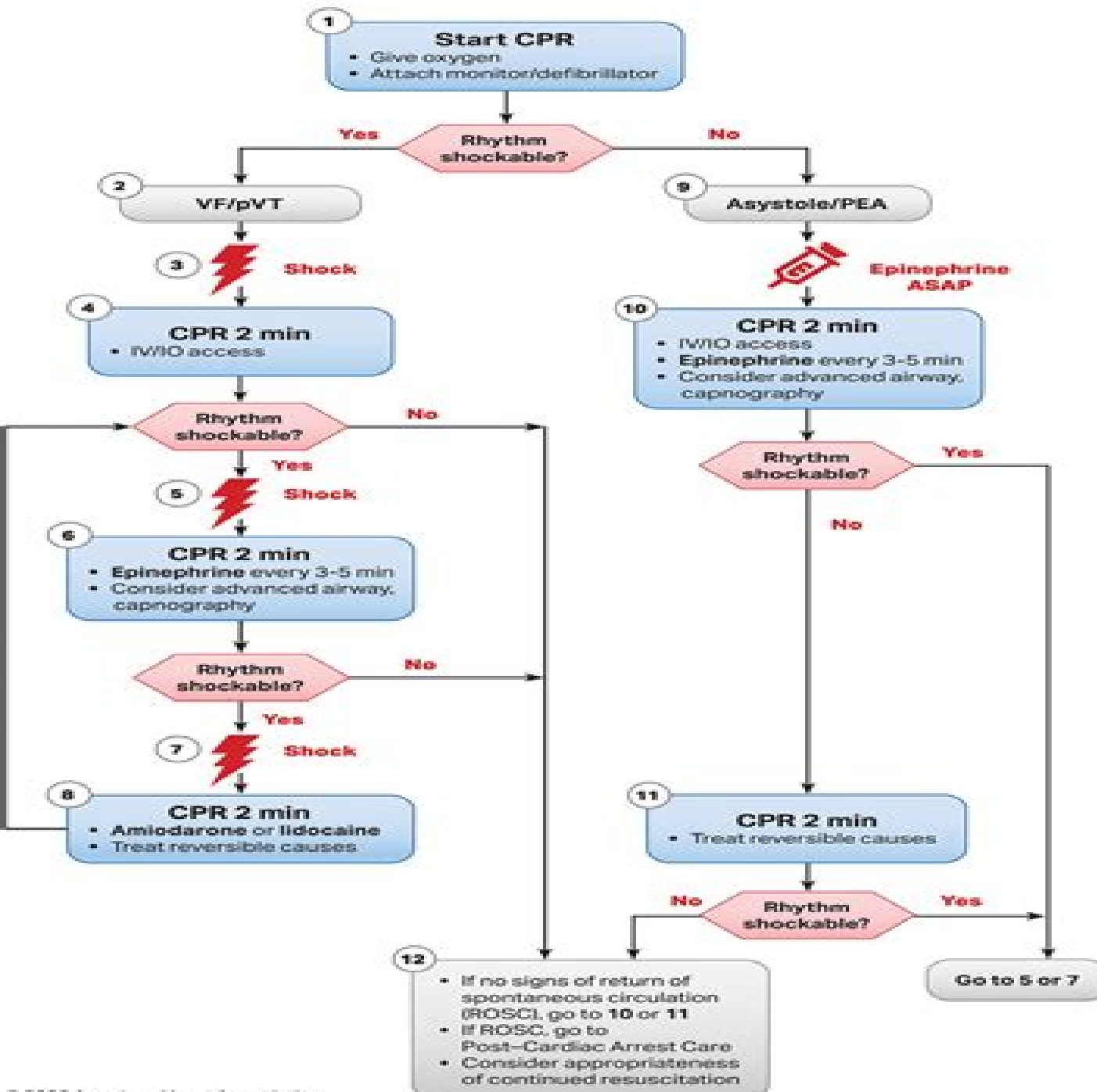




CPR Quality

- 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.
- Change compressor every 2 minutes, or sooner if fatigued.
- If no advanced airway, 30:2 compression-ventilation ratio.
- Quantitative waveform capnography
 - If $P_{\text{ET}}\text{CO}_2$ is low or decreasing, reassess 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 IV/IO dose:** 1 mg every 3-5 minutes
- Amiodarone IV/IO dose:** First dose: 300 mg bolus. Second dose: 150 mg, or
- Lidocaine IV/IO dose:** First dose: 1-1.5 mg/kg. Second dose: 0.5-0.75 mg/kg.

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)

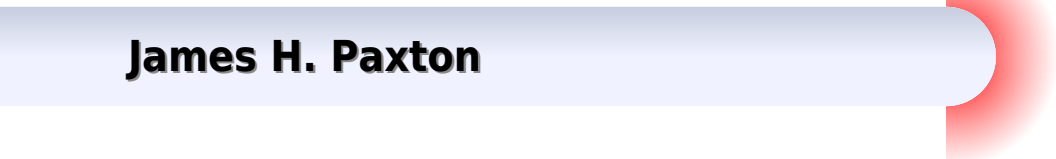
- Pulse and blood pressure
- Abrupt sustained increase in $P_{\text{ET}}\text{CO}_2$ (typically ≥ 40 mm Hg)
- Spontaneous arterial pressure waves with intra-arterial monitoring

Reversible Causes

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

Aha Bls Guidelines 23

James H. Paxton



Aha Bls Guidelines 23:

Manual of Electrophysiology Mark Anderson, Donald Heistad, Richard E Kerber, 2015-03-10 Manual of Electrophysiology is a comprehensive guide to cardiac electrophysiology brought together by a team of US based experts in this field The book focuses on current understanding and the most recent advances in electrophysiology Consisting of 16 chapters the book begins with basic understanding of the mechanisms of arrhythmia irregular heartbeat the pharmacology of antiarrhythmic drugs and an introduction to electrophysiology studies Various arrhythmias are discussed in detail from tachycardia and bradycardia to cardiomyopathy and Brugada Syndrome The latter part of the book provides a number of therapeutic guidelines for heart conditions including surgical and catheter ablation of cardiac arrhythmias cardiac resynchronisation therapy and ambulatory electrocardiographic monitoring With 350 full colour images and illustrations enhancing practical advice on the diagnosis and therapy of cardiac diseases Manual of Electrophysiology provides indispensable guidance for physicians clinicians and cardiologists Key Points Essential guide to cardiac electrophysiology from a team of experts at the Universities of California and Iowa Discusses the most recent advances in the field Provides therapeutic guidelines for a number of heart conditions 350 full colour images and illustrations [ACSM's Resource Manual for Guidelines for Exercise Testing and Prescription](#) David P. Swain, ACSM, Clinton A. Brawner, 2012-12-26 ACSM's Resource Manual for Guidelines for Exercise Testing and Prescription was created as a complement to ACSM's Guidelines for Exercise Testing and Prescription and elaborates on all major aspects of preventative rehabilitation and fitness programs and the major position stands of the ACSM The 7th edition provides information necessary to address the knowledge skills and abilities set forth in the new edition of Guidelines and explains the science behind the exercise testing and prescription ACSM's Resource Manual is a comprehensive resource for those working in the fitness and clinical exercise fields as well as those in academic training

Emergent Vascular Access James H. Paxton, 2021-09-02 This book focuses on the placement of vascular access devices under emergent conditions including the techniques and devices needed to achieve successful device deployment in even the most critically ill patient Up to date references and evidence for best practices are provided informing both the novice and experienced healthcare provider Each chapter is meticulously researched including individual chapters focusing upon peripheral intravenous intraosseous central venous and ultrasound guided catheter placement Device selection and emergent decision making are discussed at length including such crucial determinants as infusion flow rates device limitations issues with medication incompatibility complications of line placement and the relative indications and contraindications associated with various vascular access approaches Emergent Vascular Access is an essential resource for any healthcare provider who places or manages vascular access devices in critically ill patients including emergency and ICU physicians residents rapid response providers EMS paramedics patient care technicians medical students and nurses

PROCEEDINGS OF THE 23RD CONFERENCE ON FORMAL METHODS IN COMPUTER-AIDED DESIGN -

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Anesthesia E-Book Ronald D. Miller,Lars I. Eriksson, Lee A Fleisher, Jeanine P. Wiener-Kronish, William L. Young, 2009-06-24 From fundamental principles to advanced subspecialty procedures Miller's Anesthesia covers the full scope of contemporary anesthesia practice It is the go to reference for masterful guidance on the technical scientific and clinical challenges you face Now new chapters new authors meticulous updates an increased international presence and a new full color design ensure that the 7th edition continues the tradition of excellence that you depend on Covers the full scope of contemporary anesthesia practice Offers step by step instructions for patient management and an in depth analysis of ancillary responsibilities and problems Incorporates Key Points boxes in every chapter that highlight important concepts Extends the breadth of international coverage with contributions from prominent anesthesiologists from all over the world including China India and Sweden Features 30 new authors and 13 new chapters such as Sleep Memory and Consciousness Perioperative Cognitive Dysfunction Ultrasound Guidance for Regional Anesthesia Anesthesia for Correction of Cardiac Arrhythmias Anesthesia for Bariatric Surgery Prehospital Emergency and Trauma Care Critical Care Protocols Neurocritical Care and Renal Replacement Therapy Dedicates an entire section to pediatric anesthesia to help you address the unique needs of pediatric patients Presents a new full color design complete with more than 1 500 full color illustrations for enhanced visual guidance

Clinical Calculations - E-Book Joyce LeFever Kee, Sally M. Marshall, Mary Catherine Forrester, Kathryn Woods, 2020-06-12 NEW Updated information on Antidiabetic Agents orals and injectables has been added throughout the text where appropriate NEW Updated content on Anticoagulant Agents is housed in an all new chapter NEW Colorized abbreviations for the four methods of calculation BF RP FE and DA appear in the Example Problems sections NEW Updated content and patient safety guidelines throughout the text reflects the latest practices and procedures NEW Updated practice problems across the text incorporate the latest drugs and dosages

Pediatric Anesthesia Bruno Bissonnette, 2014-05-14 No longer merely a subspecialty pediatric anesthesia is now a professional entity in its own right as is amply demonstrated in this comprehensive addition to the medical and surgical literature Pediatric Anesthesia Basic Principles State of the Art Future comprises the contributions of 150 experts in the field from all over the world providing this book with a truly global perspective This textbook will help anesthesiologists already interested in pediatric anesthesia to the knowledge and skills inherent to the safe practice of anesthesia for infants and children

ICU Protocols Rajesh Chawla, Subhash Todi, 2020-04-01 The second edition of this highly successful book includes up to date notes on the step wise management of clinical emergencies encountered in everyday intensive care units ICU Each thoroughly revised chapter

provides concise information for point of care treatment making it a practical guide clinicians can refer to on a daily basis at work or while traveling or just to expand their knowledge Volume 2 of ICU Protocols covers topics in the endocrine and metabolic systems oncology trauma toxicology envenomation and thermoregulation obstetrics perioperative care pediatrics and ICU procedures Pulmonology cardiology neurology gastroenterology nephrology and infectious diseases are covered in the first volume of ICU Protocols This two volume book is a must read for intensivists critical care specialists junior trainees and residents working in ICUs It is also relevant as course material for workshops on critical care and essential for all hospital based libraries This book provides junior trainees with an introduction to the management of problems common to the critical care unit David J Dries Doody's Book Reviews March 2013 for the first edition of ICU Protocols

The Little ICU Book of Facts and Formulas Paul L. Marino, 2008-08-01 Ideal for quick reference at the bedside The Little ICU Book of Facts and Formulas is a smaller condensed compact and portable version of The ICU Book Third Edition Most of the chapters in the larger book have been retained in the little book but each chapter has been completely rewritten to include only the most essential information The content is presented in outline format for easy access and the book is densely packed with facts and formulas that represent the essentials of patient care in the adult ICU

ACLS Study Guide - E-Book Barbara J Aehlert, 2011-12-08 Reflecting the 2010 Emergency Cardiovascular Care guidelines ACLS Study Guide 4th Edition offers a complete full color overview of advanced cardiovascular life support An easy to read approach covers everything from airway management and rhythms and their management to electrical therapy acute coronary syndromes and acute stroke In addition to the latest ACLS treatment algorithms this edition includes new case studies new photos and illustrations a heart rate ruler and a handy ACLS quick reference card for use in the field Written by Barbara Aehlert ACLS Study Guide is the official textbook for the American Safety Health Institute ACLS certification course A pretest and posttest each containing 50 questions with answers and rationales allow you to check your knowledge prior to and after your study Chapter objectives preview the main points in each chapter Stop and Review sections at the end of the chapters help you remember the most important information ACLS Pearls boxes offer key points and useful tips for clinical practice Keeping it Simple boxes provide essential information in a clear and concise manner Ten case studies present real life clinical situations allowing you to make decisions based on information in the Preparatory section Consistent format of case studies includes Objective Skills to Master Rhythms to Master Medications to Master Related Text Chapters Essential Actions and Unacceptable Actions A heart rate ruler is included to help you interpret ECGs 4 x 6 pocket size quick reference card contains key ACLS algorithms for field use 100 new and updated photos and illustrations show key ACLS procedures and equipment Pharmacological interventions are integrated into the chapters for a more cohesive learning experience New streamlined approach reduces the number of pages and simplifies the information you need to know

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web jul 24 2020 1 the diagram of atp in model 1 has three parts use your knowledge of biomolecules to label the molecule with an adenine section a ribose sugar section and a phosphate groups section 2 refer to model 1 a what is meant by the tri in the name adenosine triphosphate 3 phosphates b

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web 2 activities for ap biology pogil 3 consider the chemical reaction in model 1 this represents photosynthesis a what substances are the reactants in photosynthesis include the name and chemical formula of each substance in your answer b

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