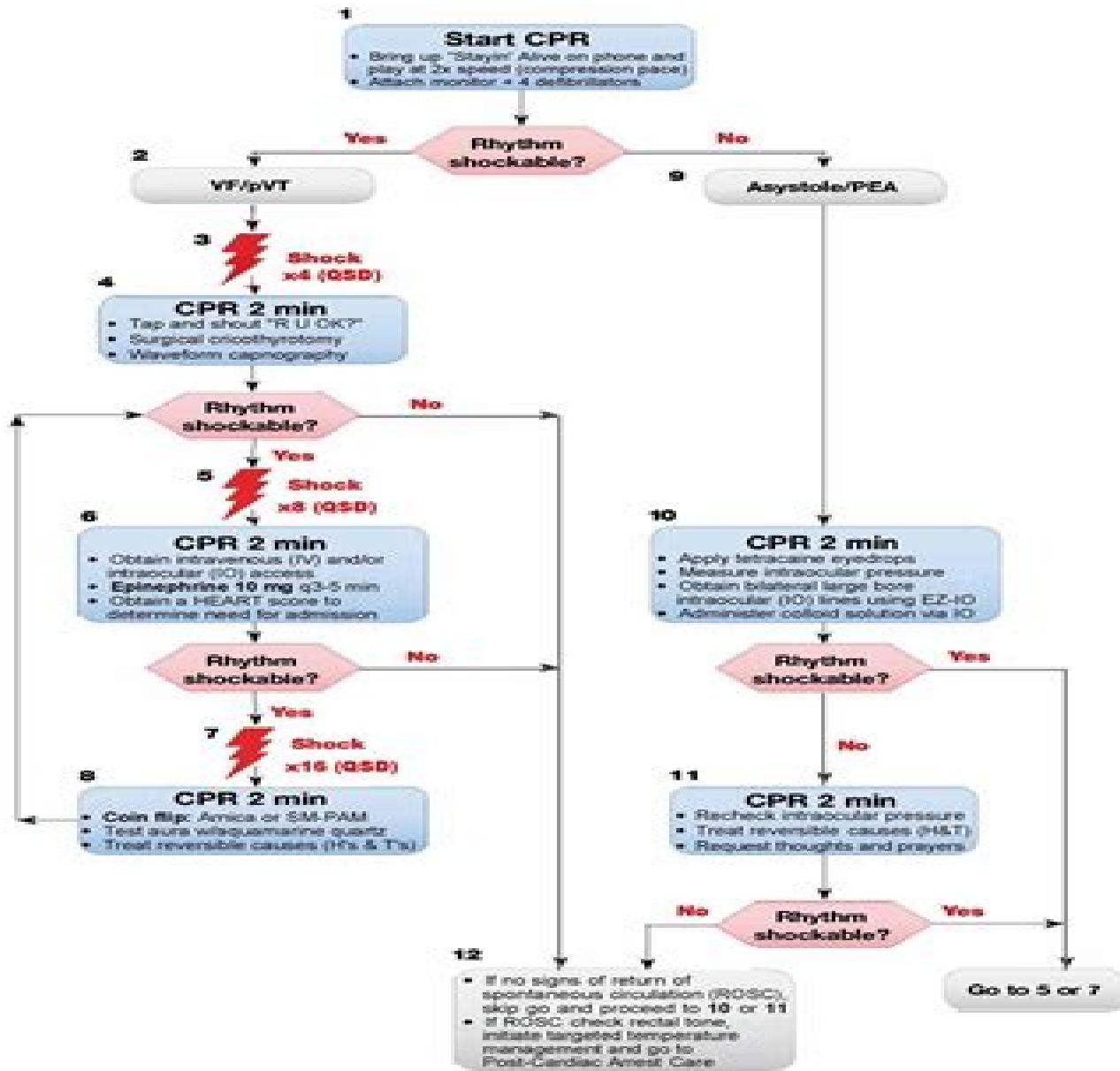


Adult Cardiac Arrest Algorithm — 2020 Update



CPR: Hands-Only OR Breaths-Only

- Hands-Only:** Place one hand under each arm and compress the chest medially like an accordion. Push hand at least 2 inches (5 cm) and fast (160-200 mm). Allow complete chest recoil.
- Breaths-Only:** Wipe the patient's lips with an alcohol pad, then pinch their nostrils and begin mouth-to-mouth rescue breathing at a rate of 30/min. If they vomit, suction the airway, place two NPPVs and deliver breaths by mouth-to-nose.
- Change compressions/breathers every 2 minutes if fatigued.
- Allow minimizable interruptions in compressions or ventilations.
- If PTT/Q1 = 3:0 attempt to increase by administering a carbonated beverage via orogastric tube.

Shock Energy for Defibrillation

- Quadruple-Sequential Defibrillation (QSD):** Attach 4 defibrillators to the patient with pads encircling the chest, then administer 4 sequential shocks at maximum available energy (eg, initial dose of 200 or 360 J). All subsequent doses are doubled.

Drug Therapy

- Epinephrine:** Initial dose: 10 mg (1:10,000), every 3-5 minutes
- Flip a coin:**
Head = Amnio (IV/IO):
First dose: 0.000003 mg/kg/5 mL
Second dose: 0.00003 mg/kg/10 mL
Tail = SM-PAM (synchronizing endotracheal intubations of anterolateral mandible) q30s

Advanced Airway

- Surgical cricothyrotomy is the ONLY definitive airway for a patient in cardiac arrest and should be prioritized over venous access (unless, intramuscular line).
- Waveform capnography (OR) percussion/lusculation to confirm and monitor ET tube placement.

Return of Spontaneous Circulation (ROSC)

- Check rectal tone and initiate TTM
- If unresponsive, immediately begin packing ice into the rectum
- If unresponsive: Foley catheter placement followed by bladder lavage: 10 mL/kg of ice water

Reversible Causes

- Hydrocephalus
- Hydrocephalus
- Hemato hernia
- Hypertension
- Hantavirus
- Toxoplasma gondii
- Thrush pedicle
- Theophylline/adenosine excess
- Thomaseff sign (silver stool)
- Takotsubo cardiomyopathy

Acls Algorithm Provider Manual 2015

Brian Freeman,Jeffrey Berger

Acls Algorithm Provider Manual 2015:

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

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 [Textbook of Patient Safety and Clinical Risk Management](#)

Liam Donaldson,Walter Ricciardi,Susan Sheridan,Riccardo Tartaglia,2020-12-14 Implementing safety practices in healthcare saves lives and improves the quality of care it is therefore vital to apply good clinical practices such as the WHO surgical checklist to adopt the most appropriate measures for the prevention of assistance related risks and to identify the potential ones using tools such as reporting learning systems The culture of safety in the care environment and of human factors influencing it should be developed from the beginning of medical studies and in the first years of professional practice in order to have the maximum impact on clinicians and nurses behavior Medical errors tend to vary with the level of proficiency and experience and this must be taken into account in adverse events prevention Human factors assume a decisive importance in resilient organizations and an understanding of risk control and containment is fundamental for all medical and surgical specialties This open access book offers recommendations and examples of how to improve patient safety by changing practices introducing organizational and technological innovations and creating effective patient centered timely efficient and equitable care systems in order to spread the quality and patient safety culture among the new generation of healthcare professionals and is intended for residents and young professionals in different clinical specialties

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

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

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 **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 test prep tool is thoroughly revised with 40% new Q As The book is also redesigned in an eye catching 2 color layout that enhances readability and review of the material Taken together Lange Q A Physician Assistant Examination has everything you need to ace the PANCE and PANRE More than 1 300 multiple choice questions with detailed answer explanations and references you will encounter on the national certification and recertification exams Includes 40% new Q As 25 additional illustrations and images and full color dermatology images Provides authoritative coverage of internal medicine and surgery subspecialties Companion online practice test for the most thorough preparation possible

Gomella and Haist's Clinician's Pocket Reference, 12th Edition Leonard G.

Gomella,Steven A. Haist,2022-06-17 An all new edition of the original Scut Monkey Handbook the acclaimed survival guide for the wards and the clinic 4 STAR DOODY S REVIEW This pocket reference is packed with information that is important for medical students and interns on a day to day basis It is rich with practical information that might otherwise be located in different manuals The fundamental information is important for all clinicians to master thus the book serves house staff quite well also This book continues to be a favorite among medical students and house staff for good reason Doody s Review Service on a previous edition This portable pocket sized manual of manuals provides medical students and residents with essential patient care information including up to date coverage of current treatment protocols clinical microbiology critical care and commonly used medications Readers will find step by step guidance on the history and physical examination differential diagnosis key lab and diagnostic tests and much more The Twelfth Edition is highlighted by NEW specialty Pearls NEW chapters on the Patient Presentation Specialized Diagnostics Hospice and Palliative Care Interdisciplinary Health Care Teams and Principles of Ambulatory Care and must know board tips at the end of each chapter and NEW laboratory tests

Anesthesiology Core Review: Part One: BASIC Exam, Second Edition Brian Freeman,Jeffrey Berger,2023-12-01 The essential high yield review for Part One of the ABA BASIC Exam updated to align with the latest exam blueprint Anesthesiology residents must pass the BASIC exam in order to continue their training This essential resource is the single best way to take the stress out of this make or break exam focus your study on nearly 200 must know topics found on the board exam outline and identify your areas of strength and weakness Written by program directors with many years of board examination advising experience Anesthesiology Core Review Part One BASIC Exam succinctly summarizes key concepts in

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Posey,2020-07-03 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 25 additional chapters available online The classic guide to driving optimal patient outcomes using evidence based medication therapies updated with the latest advances and guidelines Presented in full color Pharmacotherapy A Pathophysiologic Approach 11th Edition helps you deliver the highest quality patient care through evidence based medication therapy derived from sound pharmacotherapeutic principles It takes you beyond drug indications and dosages showing how to properly select administer and monitor drugs everything you need to provide safe effective drug therapy across all therapeutic categories With all new monitoring tables and authoritative content from 300 expert contributors this new edition has been fully updated to reflect the latest evidence based information and recommendations You ll find Key Concepts at the beginning of each chapter Clinical Presentation tables that summarize disease signs and symptoms and Clinical Controversies boxes that examine the complicated issues faced by students and clinicians in providing drug therapy Why Pharmacotherapy A Pathophysiologic Approach is perfect for students pharmacists and other healthcare providers All chapters provide the most current reliable and relevant information available Key concepts kick off every chapter Clinical Presentation Tables summarize disease signs and symptoms The majority of sections include personalized pharmacotherapy content Clinical Controversies Boxes clarify the most complex drug therapy issues you ll face Diagnostic flow diagrams treatment algorithms dosing recommendations and monitoring approaches have been updated in full color to distinguish treatment pathways Most disease oriented chapters are enhanced by updated evidence based treatment guidelines which often include ratings of the level of evidence to support key therapeutic approaches Instructors who adopt this text are eligible for a PowerPoint presentation of all images and answers to Self Assessment Questions The most trusted guide of its kind for decades Pharmacotherapy A Pathophysiologic Approach is the go to text for students and practitioners seeking clear objective coverage of core pathophysiologic and therapeutic elements

Advanced Cardiovascular Life Support ,2001 Graber and Wilbur's Family Medicine Examination and Board Review, Fifth Edition Mark Graber,Bright Ray,Jason K. Wilbur,2020-03-06 An engagingly written case based review for the Family Medicine Board Examination and the USMLE Step 3 Widely recognized as the ideal study guide for the primary and recertification exams in family medicine and licensure exams Graber and Wilbur s Family Medicine Examination and Board Review Fifth Edition has been updated throughout to maintain currency and freshness including new bits of humor that make the book fun to read and studying more enjoyable Featuring hundreds of progressive cases this acclaimed review has been applauded by residents and students for its building block approach to learning that assures readers understand one subject before moving on to the next The Fifth Edition has also been enhanced with cutting edge coverage of topics such as health maintenance decision making and metacognition More than 350 progressive case studies that reflect the realities of clinical practice and prepare readers for the exams A 200 question final exam with answers referenced to pages in the book

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