

Adult Basic and Advanced Life Support

Cardiac Arrest



Burden of disease
Affects individuals across age, gender, race, geography, and socioeconomic status



Out-of-hospital
An estimated 400,000 per year in the United States and Canada combined, with a survival rate of 10%



In-hospital
Without a national registry in Canada, the combined numbers are unknown. However, over 290,000 per year in the United States, with a survival rate of 25%



CPR and Access

2020 Guidelines reaffirm the need for early initiation of High-quality CPR



Real-time audiovisual feedback is suggested as a means to maintain CPR quality.



Depth of at least 5 cm (2 inches) for chest compressions



100 to 120/min



Administer Epinephrine
Administer as soon as feasible for nonshockable rhythms and after defibrillation has failed in shockable rhythms.



Attempt IV Before IO
Emphasis is on intravenous as first access attempt; if that fails or is not feasible, intraosseous may be used.

Defibrillation



Critical
for cardiac arrest due to ventricular fibrillation and pulseless ventricular tachycardia

Double sequential defibrillation is shock delivery by 2 defibrillators nearly simultaneously.



The usefulness of double sequential defibrillation has not been established for refractory shockable rhythms. Routine use of double sequential defibrillation is not recommended at this time.

Special Considerations



Cardiac arrest due to an opioid overdose must be considered and requires individualized treatment.



Administer **naloxone** for respiratory arrest or if unsure if patient is in cardiac arrest. The most common routes of administration are intravenous, intramuscular, or intranasal. New in 2020: **Algorithms** for healthcare providers and lay rescuers for treating overdoses are provided.

Cardiac arrest in pregnancy requires individualized management of resuscitation.

EMS should notify healthcare facilities in advance to ensure all resources are available for both infant and mother.

Focus on **maternal resuscitation**, with preparation for **perimortem caesarean delivery** if necessary.

Perform **left uterine displacement** during CPR to improve perfusion.



New in 2020



Point-of-care ultrasound: If an **experienced sonographer** is **present** and the **use of ultrasound does not interfere** with standard cardiac arrest protocol, then it may be considered as an adjunct, although its usefulness has not been well established.



Neuroprognostication: **Multiple modalities** should be used to improve decision-making accuracy.



Post-cardiac arrest care: Emphasis is on **interventions during the initial stabilization phase** as well as on **continued management** and additional emergent activities.



Chain of Survival: A **new link—recovery**—has been added. Full recovery can take a year or more. Because recovery continues long **beyond initial hospitalization**, provide assessment and support for physical, cognitive, and psychosocial needs.

American Heart Association Guidelines For Cpr

Sebastian Brünink



American Heart Association Guidelines For Cpr:

The Textbook of Emergency Cardiovascular Care and CPR John M. Field, Peter J. Kudenchuk, Robert O'Connor, Terry VandenHoek, 2012-11-07 With an editorial team of leading experts from the American College of Emergency Physicians and the American Heart Association this book is the first complete clinically oriented reference textbook in emergency cardiovascular care and CPR The book translates bench research to the clinician's bedside needs and addresses end of life issues The content is appropriate for a large audience including early caregivers emergency department and CCU nurses students residents fellows and hospitalists responsible for cardiovascular emergency situations A companion Website will include the fully searchable text instructional videos produced by the AHA and links to ACC AHA ASE ACEP and ILCOR guidelines and policy statements 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 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 Principles of Airway Management Brendan T. Finucane, Ban C.H. Tsui, Albert Santora, 2010-12-14 Principles of Airway Management 4th Edition reviews the essential aspects of airway management anatomy equipment intubation fiberoptic endoscopy surgical approaches intubating LMA lightwand pediatric airway CPR and mechanical ventilation The book features well balanced discussions of the complexities and difficult issues associated with airway management excellent organization that ensures the material can be learned and applied to various situations the latest equipment and techniques summary boxes which highlight the most important points of each chapter and more than 400 illustrations many in color for the first time tables and boxes ACLS Study Guide - E-Book Barbara J Aehlert, 2016-10-06 Awarded second place in the 2017 AJN Book of the Year Awards in the Critical Care Emergency Nursing category Provide the best possible emergency cardiovascular care using the newest ECC guidelines ACLS Study Guide 5th Edition offers a complete full color overview of advanced cardiovascular life support An easy to read approach covers everything from airway management to cardiac arrest rhythms and their management electrical therapy acute coronary syndromes and acute stroke In addition to the latest ACLS treatment algorithms this edition includes case studies and hundreds of full color photos and illustrations Case studies present common realistic clinical situations helping you learn and

apply skills in cardiac rhythm interpretation medication administration and other essential interventions ACLS Pearls boxes offer brief explanations of complex topics and useful tips for clinical practice End of chapter quizzes include answers and rationales helping you learn and remember the most important information Easy to understand approach simplifies your study of advanced cardiac life support thanks to Barbara Aehlert s unique conversational writing style NEW UPDATED content centers on evidence based practice recommendations including the 2015 American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care and the 2015 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science With Treatment Recommendations NEW Improved format integrates all case studies into the appropriate chapters so that you can apply concepts immediately to real world situations

Principles of Pediatric and Neonatal Emergencies Panna Choudhury, Arvind Bagga, Krishan Chugh, Siddharth Ramji, 2011

Medical Management of the Surgical Patient Michael F. Lubin, Thomas F. Dodson, Neil H. Winawer, 2013-08-15 Now in its fifth edition Medical Management of the Surgical Patient A Textbook of Perioperative Medicine has been fully revised and updated and continues to provide an authoritative account of all aspects of perioperative care for surgical patients Including recommended plans which aid accurate treatment of patients it provides an evidence based approach for consulting physicians to care for patients with underlying medical conditions that will affect their surgical management The latest minimally invasive surgical techniques are included with new chapters on thoracic aortic disease reconstruction after cancer ablation lung transplantation esophagomyotomy vasectomy and thyroid malignancies amongst others With detailed descriptions of nearly one hundred operations highlighting their usual course as well as their common complications the book encourages learning from experience This definitive account includes numerous contributions from leading experts at national centers of excellence It will continue to serve as a significant reference work for internists hospitalists anesthesiologists and surgeons

Darby & Walsh Dental Hygiene - E-Book Jennifer A Pieren, Cynthia Gadbury-Amyot, 2024-01-19 2025 Textbook and Academic Authors Association TAA Textbook Excellence Texty Award Winner Selected for Doody s Core Titles 2024 with Essential Purchase designation in Dental Hygiene online procedure videos are included with new text purchase Human Needs Conceptual Model Oral Health Related Quality of Life frameworks in which all discussions are presented within the context of a person centered care model take the entire person into consideration Learning aids in each chapter include professional development opportunities learning competencies patient education tips critical thinking scenarios and discussions of legal ethical and safety issues which help your practical application and problem solving skills and bring the profession to life NEW Increased focus on new and emerging technologies keeps you up to date with the latest advances in the field NEW Telehealth chapter explains how to practice telehealth and teledentistry in nontraditional and community based settings NEW Mental Health and Self Care chapter provides timely content on safeguarding mental health and wellness for the practitioner and the patient UPDATED Enhanced

coverage of infection control prepares you to practice as a dental hygienist in the time of COVID 19 and potential future pandemic events UPDATED Coverage of Caries Management by Risk Assessment CAMBRA for integrating into the dental hygiene process of care EXPANDED Further integration of the current American Academy of Periodontology periodontal classifications throughout the text Integration of theory throughout the book includes content on how to incorporate the use of theory in practice *Perry & Potter's Canadian Clinical Nursing Skills and Techniques- E-Book* Shelley Cobbett,2023-11-10 Perry Potter s Canadian Clinical Nursing Skills and Techniques 2nd Edition helps equip you with the skills you need to successfully care for patients within the Canadian social and institutional context Offering comprehensive coverage of more than 200 basic intermediate and advanced skills this textbook features nearly 1 000 full colour photographs and illustrations a nursing process framework step by step instructions with rationales and a focus on critical thinking and evidence informed practice New to this edition are unit openers safety alerts documentation examples COVID 19 precautions and protocols and case studies and questions for the Next Generation NCLEX **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 Egan's Fundamentals of Respiratory Care E-Book Robert M. Kacmarek,James K. Stoller,Albert J. Heuer,2019-12-18 Textbook and Academic Authors Association TAA McGuffey Longevity Award Winner 2024 Learn the principles and skills you ll need as a respiratory therapist Egan s Fundamentals of Respiratory Care 12th Edition provides a solid foundation in respiratory care and covers the latest advances in this ever changing field Known as the bible for respiratory care this text makes it easy to understand the role of the respiratory therapist the scientific basis for treatment and clinical applications Comprehensive chapters correlate to the 2020 NBRC Exam matrices preparing you for clinical and exam success Written by noted educators Robert Kacmarek James Stoller and Albert Heuer this edition includes new chapters on heart failure as well as ethics and end of life care plus the latest AARC practice guidelines Updated content reflects the newest advances in respiratory care preparing you to succeed in today s health care environment UNIQUE Mini Clinis provide case scenarios challenging you to use critical thinking in solving problems encountered during actual patient care Decision trees developed by hospitals highlight the use of therapist driven protocols to assess a patient initiate care and evaluate outcomes Rules of Thumb highlight rules formulas and key points that are important to clinical practice Learning objectives align with the summary checklists highlighting key content at the beginning and at the end of each chapter and parallel the three areas tested on the 2020 NBRC Exam matrices Learning resources on the Evolve companion website include an NBRC correlation guide image collection lecture notes Body Spectrum electronic anatomy coloring book and an English Spanish glossary Student workbook provides a practical study guide reflecting this edition of the text offering

numerous case studies experiments and hands on activities Available separately Full color design calls attention to the text s special features and promotes learning Glossary includes key terms and definitions needed for learning concepts NEW Heart Failure chapter covers the disease that is the most frequent cause of unscheduled hospital admissions NEW Ethics and End of Life Care chapter explains related issues and how to help patients and their families NEW Improved readability makes the text easier to read and concepts easier to understand NEW Updated practice guidelines from the AARC American Association for Respiratory Care are included within the relevant chapters NEW Updated chapters include topics such as arterial lines stroke ACLS PALS hemodynamics polysomnography waveform interpretation and laryngectomy NEW Streamlined format eliminates redundancy and complex verbiage

Sport First Aid Robb S. Rehberg, 2025 Approximately 90 percent of high school student athletes report sustaining an injury while participating in sports With only about one third of high schools in the United States having full time athletic trainers and another third lacking any athletic trainer services you the coach are often the first responder when an injury occurs This reality underscores the importance of providing you with proper training in first aid and injury prevention Such training prepares you to act quickly and appropriately when an athlete is injured or becomes ill ensuring the safety and well being of your student athletes As a current or aspiring high school or club coach you can rely on *Sport First Aid* Sixth Edition for the information you need to be a capable and confident first responder The sixth edition has been revised and restructured It features an unparalleled author team of experts in athletic training sports medicine exercise science and physiology strength and conditioning and sport coaching It reflects the leading health organizations latest emergency guidelines including those for CPR concussion dehydration and heat illness Tailored specifically to your needs as a coach the text covers causes symptoms and action steps for more than 100 injuries and illnesses In this sixth edition the most common injuries and illnesses are described in greater detail and prioritized so they are easier to reference Additionally flowcharts for over 40 specific injuries and illnesses offer step by step visuals to guide you through the decision making and response process Beyond specific first aid procedures the text provides guidance on understanding your legal duties as a coach assembling an athletic health care team and collaborating with other team members minimizing the risk of injury planning for medical emergencies administering the plan during emergency situations and assessing when and how to move injured and sick athletes An athletic trainer may not always be present at every practice and game As a coach it s crucial to have a basic understanding of first aid and injury prevention *Sport First Aid* is the most authoritative source for this potentially life saving information It will prepare you to respond appropriately in emergency situations meet your legal obligations as a coach and foster a safe environment for your athletes

Respiratory Care: Principles and Practice Hess, Neil R. MacIntyre, William F. Galvin, Shelley C. Mishoe, 2015-04-06 With contributions from over 75 of the foremost experts in the field the third edition represents the very best in clinical and academic expertise Taught in leading respiratory care programs in the U S it continues to be the top choice for instructors and students alike

The Third Edition includes numerous updates and revisions that provide the best foundational knowledge available as well as new helpful instructor resources and student learning tools A complete and up to date exploration of the technical and professional aspects of respiratory care With foundations in evidence based practice this essential resource reviews respiratory assessment respiratory therapeutics respiratory diseases basic sciences and their application to respiratory care the respiratory care profession and much more With content cross references the NBRC examination matrices Respiratory Care Principles and Practice Third Edition is the definitive resource for today s successful RT **Early's Physical**

Dysfunction Practice Skills for the Occupational Therapy Assistant E-Book Mary Beth Patnaude,2021-01-15 NEW Intervention Principles for Feeding and Eating chapter is added to this edition NEW Reorganization of all chapters aligns content more closely with the Occupational Therapy Practice Framework NEW Combined chapters make the material more concise and easier to navigate Lippincott's Nursing Procedures ,2009 The newly revised fifth edition of this popular reference is a start to finish guide for more than 400 basic to advanced nursing procedures It provides step by step instructions for each procedure and explains how to use and troubleshoot equipment 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 Textbook of Emergency Cardiology Alan S Maisel,W Frank Peacock,2021-11-30 This book is a comprehensive guide to the diagnosis and management of acute cardiovascular disorders Divided into four sections the text provides detailed guidance on cardiac arrest acute myocardial infarction and acute coronary syndrome acute heart failure and arrhythmias Individual chapters cover cardiac imaging biomarkers and drug therapy Written by renowned experts in the field led by US based Alan S Maisel and W Frank Peacock the text is further enhanced by more than 300 clinical photographs radiological images tables and figures Key points Comprehensive guide to diagnosis and management of acute cardiovascular disorders Covers cardiac arrest acute myocardial infarction and acute coronary syndrome acute heart failure and arrhythmias Authored by recognised experts in the field Highly illustrated with clinical photographs radiological images tables and figures **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 Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiac Care American Heart Association,1992 *Canadian Clinical Nursing Skills and Techniques E-Book* Shelley Cobbett,Anne G. Perry,Patricia A. Potter,Wendy R. Ostendorf,2019-05-21 NEW Fully revised for a Canadian classroom includes Canadian statistics references and resources protocols documentation standards delegation rules Canadian nursing best practice guidelines metric measurements and more NEW All topics skills and sample documentation conform to Canadian provincial and territorial scopes of practice and Canadian standards in nursing practice NEW Inclusion of Canadian concepts Person Centred Care Evidence Informed Practice Interprofessional Collaboration and Delegation and Care in the Community NEW Greater emphasis on cultural assessment considerations and caring for Indigenous and vulnerable populations NEW Thoroughly revised chapters reflect Canadian practice and guidelines including Emergency Preparedness and Disaster Management Palliative Care Cardiac Care Vascular Access and Infusion Therapy Oral Nutrition and Prevention of Skin Breakdown and Wound Care NEW Enhanced and updated art program includes 70 new figures

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