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

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

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



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



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

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



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

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

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.





Infographic by Seminari Wilson, MD
control of the C





American Heart Association Guidelines For Cpr

Jennifer A Pieren, Cynthia Gadbury-Amyot

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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 guizzes 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

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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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Table of Contents American Heart Association Guidelines For Cpr

- 1. Understanding the eBook American Heart Association Guidelines For Cpr
 - The Rise of Digital Reading American Heart Association Guidelines For Cpr
 - Advantages of eBooks Over Traditional Books
- 2. Identifying American Heart Association Guidelines For Cpr
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an American Heart Association Guidelines For Cpr
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from American Heart Association Guidelines For Cpr
 - Personalized Recommendations
 - American Heart Association Guidelines For Cpr User Reviews and Ratings
 - American Heart Association Guidelines For Cpr and Bestseller Lists
- 5. Accessing American Heart Association Guidelines For Cpr Free and Paid eBooks

- American Heart Association Guidelines For Cpr Public Domain eBooks
- American Heart Association Guidelines For Cpr eBook Subscription Services
- American Heart Association Guidelines For Cpr Budget-Friendly Options
- 6. Navigating American Heart Association Guidelines For Cpr eBook Formats
 - o ePub, PDF, MOBI, and More
 - American Heart Association Guidelines For Cpr Compatibility with Devices
 - American Heart Association Guidelines For Cpr Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of American Heart Association Guidelines For Cpr
 - Highlighting and Note-Taking American Heart Association Guidelines For Cpr
 - Interactive Elements American Heart Association Guidelines For Cpr
- 8. Staying Engaged with American Heart Association Guidelines For Cpr
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers American Heart Association Guidelines For Cpr
- 9. Balancing eBooks and Physical Books American Heart Association Guidelines For Cpr
 - Benefits of a Digital Library
 - \circ Creating a Diverse Reading Collection American Heart Association Guidelines For Cpr
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine American Heart Association Guidelines For Cpr
 - Setting Reading Goals American Heart Association Guidelines For Cpr
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of American Heart Association Guidelines For Cpr
 - Fact-Checking eBook Content of American Heart Association Guidelines For Cpr
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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