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

David P. Rakel, Vincent Minichiello

American Heart Association Guidelines For:

ACC/AHA Guidelines for the Management of Patients with Acute Myocardial Infarction American College of Cardiology/American Heart Association Task Force on Practice Guidelines. Committee on Management of Acute Myocardial Infarction, Thomas J. Ryan, Raymond J. Gibbons, American College of Cardiology, American Heart Association, 1999

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 The Textbook of Emergency Cardiovascular Care and CPR John M. Field, 2009 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 Braunwald's Heart Disease E-Book Robert O. Bonow, Douglas L. Mann, Douglas P. guidelines and policy statements Zipes, Peter Libby, 2011-02-25 Braunwald's Heart Disease remains your indispensable source for definitive state of the art answers on every aspect of contemporary cardiology Edited by Drs Robert O Bonow Douglas L Mann Douglas P Zipes and Peter Libby this dynamic multimedia reference helps you apply the most recent knowledge in molecular biology and genetics imaging pharmacology interventional cardiology electrophysiology and much more Weekly updates online personally selected by Dr Braunwald continuously keep you current on the most important new developments affecting your practice Enhanced premium online content includes new dynamic cardiac imaging videos heart sound recordings and podcasts With sweeping updates throughout and contributions from a who s who of global cardiology Braunwald s is the cornerstone of effective practice Continuously access the most important new developments affecting your practice with weekly updates personally selected by Dr Braunwald including focused reviews hot off the press commentaries and late breaking clinical trials Practice with confidence and overcome your toughest challenges with advice from the top minds in cardiology today who synthesize the entire state of current knowledge and summarize all of the most recent ACC AHA practice guidelines Locate the answers you need fast thanks to a user friendly full color design with more than 1 200 color illustrations Search the complete contents

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Cardiovascular Imaging E-Book Vincent Ho, Gautham P. Reddy, 2010-11-09 Cardiovascular Imaging a title in the Expert Radiology Series edited by Drs Vincent Ho and Gautham P Reddy is a comprehensive 2 volume reference that covers the latest advances in this specialty It provides richly illustrated advanced guidance to help you overcome the full range of diagnostic therapeutic and interventional challenges in cardiovascular imaging and combines an image rich easy to use format with the greater depth that experienced practitioners need Online access at www expertconsult com allows you to rapidly search for images and guickly locate the answers to any questions Access the fully searchable text online at www

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Neurointerventional Surgery Min S. Park, M. Yashar S. Kalani, Michael Stiefel, 2021-06-18 Unique neurointerventional surgery resource analyzes landmark literature to inform optimal patient management The field of neurointerventional surgery is rapidly expanding with an ever accelerating pace of technological innovations While industry plays a significant role in designing new technology and defining indications for its use practitioners need to evaluate and determine the most efficacious treatments for their patients Neurointerventional Surgery An Evidence Based Approach by renowned endovascular neurosurgeons Min Park M Yashar S Kalani and Michael F Stiefel examines the most common disease states in neurointerventional surgery through a critical lens The unique text leverages evidenced based data to inform treatment decisions and improve patient outcomes The text is organized by 5 sections and 32 chapters including the latest state of the art interventions Each of the chapters provides critical analysis of the landmark papers that established the foundation and standards for modern neurointerventional practice An example is the rapidly changing understanding of large vessel occlusions in ischemic stroke that now strongly supports mechanical thrombectomy as a viable and important part of the treatment armamentarium Key Highlights Contributions from internationally recognized leaders in academic neurointerventional surgery provide insightful and analytic perspectives Encompasses the full continuum of neurointerventional procedures in one resource from hemorrhagic and ischemic stroke to neoplasms and spine conditions The reader friendly structure and chapter formatting facilitates understanding of often complicated decision making The evidenced based multifaceted approach to neurointerventional surgery presented in this textbook makes it vital reading for residents fellows and practitioners in neurosurgery as well as fellows in interventional neuroradiology and interventional

neurology Koda-Kimble and Young's Applied Therapeutics Brian K. Alldredge, Robin L. Corelli, Michael E. Ernst, 2012-02-01 Rev ed of Applied therapeutics the clinical use of drugs edited by Mary Anne Koda Kimble et al 9th ed Lewis's Adult Health Nursing I & II (2 Volume Edition) with Complimentary Textbook of Professionalism, c2009 Professional Values and Ethics including Bioethics - E-Book Malarvizhi S., Renuka Gugan, Sonali Banerjee, 2023-12-12 The second South Asia edition of Black's Adult Health Nursing I II including Geriatric Nursing has been comprehensively updated to suit the regional curricula for undergraduate nursing students This book will help student nurses to acquire the knowledge and skill required to render quality nursing care for all common medical and surgical conditions. The contents have been made easy to understand using case studies concept maps critical monitoring boxes care plans and more This text provides a reliable foundation in anatomy and physiology pathophysiology medical surgical management and nursing care for the full spectrum of adult health conditions and is richly illustrated with flow charts drawings and photographs and South Asian epidemiological disease data for better understanding of the subject Integrating Pharmacology boxes help students understand how medications are used for disease management by exploring common classifications of routinely used medications Review questions have been added to all the units within this book This second South Asia edition will be a valuable addition to every student nurse s bookshelf given the revisions and modifications undertaken in line with the revised Indian Nursing Council INC curriculum Translating Evidence into Practice boxes Thinking Critically guestions Integrating Pharmacology boxes Bridge to Critical Care and Bridge to Home Health Care boxes Feature boxes highlighting issues in Critical Monitoring Management and Delegation boxes Genetic Links Terrorism Alert and Community Based Practice boxes Physical Assessment in the Healthy Adult and Integrating Diagnostic Studies boxes Safety Alert icons Digital Resources available on the MedEnact website **Emergency Medical Services, 2 Volumes** Jane H. Brice, Theodore R. Delbridge, J. Brent Myers, 2021-11-17 The two volume Emergency Medical Services Clinical Practice and Systems Oversight delivers a thorough foundation upon which to succeed as an EMS medical director and prepare for the NAEMSP National EMS Medical Directors Course and Practicum Focusing on EMS in the real world the book offers specific management tools that will be useful in the reader's own local EMS system and provides contextual understanding of how EMS functions within the broader emergency care system at a state local and national level The two volumes offer the core knowledge trainees will need to successfully complete their training and begin their career as EMS physicians regardless of the EMS systems in use in their areas A companion website rounds out the book s offerings with audio and video clips of EMS best practice in action Readers will also benefit from the inclusion of A thorough introduction to the history of EMS An exploration of EMS airway management including procedures and challenges as well as how to manage ventilation oxygenation and breathing in patients including cases of respiratory distress Practical discussions of medical problems including the challenges posed by the undifferentiated patient altered mental status cardiac arrest and dysrhythmias seizures stroke and allergic reactions An

examination of EMS systems structure and leadership **Concepts of Athletic Training** Ronald P. Pfeiffer, Brent C. Mangus, Cynthia Trowbridge, 2014-03-19 Heavily revised and updated with the latest data from the field the Seventh Edition of Concepts of Athletic Training focuses on the care and management of sport and activity related injuries while presenting key concepts in a comprehensive logically sequential manner that will assist future professionals in making the correct decisions when confronted with an activity related injury or illness in their scope of practice New to the Seventh Edition An extensively revised and rewritten Chapter 3 The Law of Sports Injury includes new material on the ethics of sports injury care and the role of the athletic trainer in risk assessment and liability Chapter 4 Sports Injury Prevention provides new material on training benefits of anaerobic fitness Chapter 7 Emergency Plan and Initial Injury Evaluation includes an expanded section on the assessment of the injured athlete s physical exam that urges coaches to collect as much information about the injury as well as the health history of the athlete Chapter 13 Injuries to the Thorax and Abdomen contains new sections on muscle strains and cardiac defects Key Features include New and revised What if scenarios encourage students to work on critical decsion making skills alone or in a group setting with role playing activities Time Out boxes provide additional information related to the text such as NATA Athletic Helmet Removal Guidelines how to recognize the signs of concusiion and first aid for epilepsy Athletic Trainers Speak Out boxes feature a different athletic trainer in every chapter who discusses an element of athlete care and injury prevention Anatomy Reviews introduce body parts to students unfamiliar with human anatomy and acts as a refresher for those students with some anatomy background Cardiovascular Medicine James T. Willerson, Jay N. Cohn, Hein J.J. Wellens, David R. Holmes, 2007-12-06 This book offers the most up to date user friendly guidance on the evaluation diagnosis and medical and surgical treatment of heart and vascular disease The book and DVD package is designed to provide comprehensive coverage of every aspect of cardiovascular medicine The book has consistent chapter organization relevant to modern cardiovascular practice clear design and engaging text The reader will have all the guidance to diagnose and manage the full range of cardiovascular conditions in one textbook resource while also benefiting from access to additional video material from the integral DVD ROM This includes over 100 individual heart sounds Stoelting's Anesthesia and Co-Existing Disease, Fourth South Asia Edition Arun Kumar Paul, Nishkarsh Gupta, Agarwal Jyotsna, 2024-06-28 Stoelting's Anesthesia and Co existing Disease Fourth South Asia Edition Pediatric Nursing Kathryn Rudd, Diane Kocisko, 2013-10-10 All of the field s must have information is delivered in an easy to grasp visually clear and precise design Wilderness Medicine E-Book Paul S. Auerbach, 2011-10-31 Quickly and decisively manage any medical emergency you encounter in the great outdoors with Wilderness Medicine World renowned authority and author Dr Paul Auerbach and a team of experts offer proven practical visual guidance for effectively diagnosing and treating the full range of emergencies and health problems encountered in situations where time and resources are scarce Every day more and more people are venturing into the wilderness and extreme environments or are victims of horrific

natural disasters and many are unprepared for the dangers and aftermath that come with these episodes Whether these victims are stranded on mountaintops lost in the desert injured on a remote bike path or ill far out at sea this indispensable resource now with online access at www expertconsult com for greater accessibility and portability equips rescuers and health care professionals to effectively address and prevent injury and illness in the wilderness This textbook is widely referred to as The Bible of Wilderness Medicine Be able to practice emergency medicine outside of the traditional hospital clinical setting whether you are in remote environments underdeveloped but highly populated areas or disaster areas are part of search and rescue operations or dealing with casualties from episodes of extreme sports and active lifestyle activities Face any medical challenge in the wilderness with expert guidance Dr Auerbach is a noted author and the world's leading authority on wilderness medicine He is a founder and Past President of the Wilderness Medical Society consultant to the Divers Alert Network and many other agencies and organizations and a member of the National Medical Committee for the National Ski Patrol System Handle everything from frostbite to infection by marine microbes not to mention other diverse injuries bites stings poisonous plant exposures animal attacks and natural disasters Grasp the essential aspects of search and rescue Respond guickly and effectively by improvising with available materials Improve your competency and readiness with the latest guidance on volcanic eruptions extreme sports splints and slings wilderness cardiology living off the land aerospace medicine mental health in the wilderness tactical combat casualty care and much more Meet the needs and special considerations of specific patient populations such as children women elders persons with chronic medical conditions and the disabled Make smart decisions about gear navigation nutrition and survival Be prepared for everything with expanded coverage on topics such as high altitude cold water immersion and poisonous and venomous plants and animals Get the skills you need now with new information on global humanitarian relief and expedition medicine plus expanded coverage of injury prevention and environmental preservation Get guidance on the go with fully searchable online text plus bonus images tables and video clips all available on ExpertConsult com **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

Integrative Medicine, eBook David P. Rakel, Vincent Minichiello, 2022-08-12 Written by physicians who are experts in both traditional and complementary medicine Integrative Medicine 5th Edition uses a clinical disease oriented approach to safely and effectively incorporate alternative therapies into primary care practice Drawing on available scientific evidence and the authors first hand experiences it covers therapies such as botanicals supplements mind body lifestyle choices nutrition

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