

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 Acls Guidelines 201

**Majid Maleki,Azin Alizadehasl,Majid
Haghjoo**



American Heart Association Acls Guidelines 201:

Guidelines for Cardiac Rehabilitation and Secondary Prevention Programs American Association of Cardiovascular & Pulmonary Rehabilitation, 2004 This edition addresses the cost effectiveness of interventions that educate and motivate patients to assume personal responsibility for long term disease prevention

Guidelines for Cardiac Rehabilitation and Secondary Prevention Programs AACVPR, 2013-08-02 Guidelines for Cardiac Rehabilitation and Secondary Prevention Programs Fifth Edition With Web Resource covers the entire scope of practice for cardiac rehabilitation and secondary prevention CR SP programs This text was developed by the American Association of Cardiovascular and Pulmonary Rehabilitation AACVPR and parallels federal guidelines for cardiac rehabilitation programs It contains information on promoting positive lifestyle behavior patterns reducing risk factors for disease progression and lessening the impact of cardiovascular disease on quality of life morbidity and mortality The text has been updated and restructured providing the most current models for designing and updating rehabilitation programs for patients and preventing second episodes In addition to chapter revisions there is new content on behavior modification risk factors and special populations The chapter covering program administration has been completely rewritten to include new regulations and reimbursement standards as well as additional suggestions for new models for CR SP The most recent Core Competencies for Cardiac Rehabilitation and Secondary Prevention Professionals and the Core Components of Cardiac Rehabilitation Secondary Prevention Programs have also been included in their entirety More than 50 leaders in the field of CR SP cardiovascular risk reduction reimbursement and public policy have contributed the latest tools and information enabling cardiac rehabilitation professionals to successfully start new programs or update and enhance existing ones Key features of the fifth edition include the following A new web resource incorporates 24 questionnaires charts consent forms protocols records checklists and logs from the text that can be used when creating or assessing programs Highlighted guidelines in each chapter cover current issues and provide hints and methods for implementing treatment programs and helping patients stay on track Chapter objectives and summaries help readers quickly assess the topics covered and identify the most important points There is strong evidence that participation in outpatient cardiac rehabilitation and secondary prevention programs decreases mortality and recurrent morbidity after a cardiac event Guidelines for Cardiac Rehabilitation and Secondary Prevention Programs Fifth Edition offers procedures for providing patients with low cost high quality programming moving them toward personal responsibility for disease management and secondary prevention over a lifetime This is the definitive resource for developing inpatient and outpatient cardiac rehabilitation programs

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

Cardiac Anesthesia: A Problem Based Learning Approach Mohammed Minhaj, Magdalena Anitescu, 2019-05-09 Cardiac Anesthesia A Problem Based Learning Approach provides a comprehensive review of the dynamic and ever changing field of cardiac anesthesia Its problem based format incorporates a pool of multiple choice questions for self assessment Each of its 36 case based chapters is accompanied by questions and answers accessible online in a full practice exam The cases presented are also unique as each chapter starts with a case description usually a compilation of several actual cases it then branches out through case based questions to increasingly complex situations This structure is designed to create an authentic experience that mirrors that of an oral board examination The discussion sections that follow offer a comprehensive approach to the chapter s subject matter thus creating a modern complete and up to date medical review of that topic

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

Mastering ACLS. , 2006 Mastering ACLS Second Edition will help health care professionals successfully complete the American Heart Association s Advanced Cardiac Life Support course and certification exam This quick review outline format study guide covers the core knowledge and skills needed for ACLS including detailed illustrated life support techniques core case studies arrhythmias defibrillation procedures I V techniques

cardiovascular pharmacology myocardial infarction and special resuscitation situations Now in full color this edition features 200 illustrations and algorithms expanded chapter quizzes a comprehensive test expanded information on automated external defibrillators and additional case scenarios in the Megacode and other chapters A new appendix reviews Basic Cardiac Life Support guidelines

Moderate and Deep Sedation in Clinical Practice Richard D. Urman, Alan D. Kaye, 2012-02-09 A concise practical handbook giving up to date evidence based how to guidance on safe effective procedural sedation

Comprehensive Management of High Risk Cardiovascular Patients Antonio M. Gotto, Peter P. Toth, 2016-04-19 Filling a large gap in the literature this book focuses on the management of patients who have or are at risk of developing cardiovascular disease Designed to serve as a resource for the busy practicing clinician the approach is evidence based but practical Conceptual development and the exploration of biochemical and physiological mechanism

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

Heart Failure Andreas P. Kalogeropoulos, Hal A. Skopicki, Javed Butler, 2022-07-11 This patient oriented book was written as a meeting ground for practicing clinicians allied health professionals and clinical researchers to provide a practical guide for the contemporary assessment and management of patients with heart failure and cardiomyopathy It revolves around broad patient scenarios to elegantly or expertly guide diagnostic and management strategies Combining the talents of over one hundred experts in the field the book also endeavors to challenge the reader with areas of current controversies and opportunities for clinical investigation with the goals of both orienting clinicians and stimulating their research passions Key Features Provides practical guidance based on real life heart failure scenarios Discusses both acute and chronic care patient oriented scenarios Covers up to date and novel concepts in heart failure Features the perspectives of current debates and controversies in heart failure Highlights the opportunities for research in this field

Practical Cardiology Majid Maleki, Azin Alizadehasl, Majid Haghjoo, 2017-08-25 From basic clinical facts to new advanced guidelines Practical Cardiology by Drs Majid Maleki Azin Alizadehasl and Majid Haghjoo is your new go to resource for new developments in cardiology knowledge imaging modalities management techniques and more This step by step practical reference is packed with tips and guidance ideal for residents fellows and clinicians in cardiology as well as internal medicine

cardiac surgery interventional cardiology and pediatric cardiology Features a wealth of information including practical points from recently published guidelines ECGs hemodynamic traces of advanced imaging modalities in real patients and much more Offers a comprehensive review of cardiovascular medicine from basic to advanced **Cardiac Intensive Care - E-Book** David L. Brown,2018-07-19 Using a multidisciplinary team oriented approach this unique title expertly covers all the latest approaches to the assessment diagnosis and treatment of patients with critical cardiac illness Led by Dr David L Brown a stellar team of authoritative writers guides you through cardiac pathophysiology disease states presenting in the CICU and state of the art advanced diagnosis and therapeutic techniques A visually appealing format new chapters and thorough updates ensure that you stay on the cutting edge of this rapidly advancing field Discusses recent changes in cardiac intensive care including new care paradigms new mechanical support modalities and new therapies and interventions Contains 11 new chapters Palliative Care Temporary Pacemaker Insertion Pericardiocentesis Distributive Shock Electrical Storm Cardiopulmonary Cerebral Resuscitation after Cardiac Arrest Temporary Mechanical Circulatory Support Devices Cardiorenal Syndrome Fulminant Myocarditis Stress Induced Cardiomyopathy Diagnosis and Treatment of Unstable Supraventricular Tachycardia Online access features heart sounds and murmurs to accompany the chapter on history and physical examination videos of clinical images and key procedures frequently updated information on late breaking clinical trials reviews of new research publications and more Concisely yet thoroughly covers acute and severe heart failure chronic pulmonary hypertension life threatening dysrhythmias aortic dissection and other cardiac conditions as they relate to intensive care Explains drug therapy for key cardiac drugs such as inotropes vasodilators anti arrhythmics diuretics anticoagulants and anti platelets and discusses important drug interactions Ideal for all healthcare professionals involved in cardiac intensive care including intensivists cardiologists cardiac surgeons residents fellows cardiac nurses respiratory therapists physical therapists and nutritionists Expert Consult™ eBook version included with purchase This enhanced eBook experience allows you to search all of the text figures and references from the book on a variety of devices and contains an up to date collection of all relevant ACC AHA and ESC guidelines *Fitness Professional's Handbook* Edward T. Howley,Dixie L. Thompson,2022-06-02 Fitness Professional s Handbook Seventh Edition With HKPropel Access provides current and future fitness professionals with the knowledge to screen participants conduct standardized fitness tests evaluate the major components of fitness and prescribe appropriate exercise The text uses the latest standards guidelines and research from authorities in the field to prepare readers for certification and arm them with the knowledge to work with a variety of clients and populations This full color text incorporates information from the 10th edition of ACSM s Guidelines for Exercise Testing and Prescription and the Physical Activity Guidelines for Americans exercise and physical activity recommendations for adults older adults children and those with special needs The text embraces the importance of communication between allied health and medical professionals with those in the fitness arena to provide readers with a

foundation for prescribing exercise and delivering need and goal specific physical activity and fitness programs Every chapter has been updated allowing readers to explore the newest theories and research findings and apply them to real world situations The following are among the most significant changes to the seventh edition Related online content delivered via HKPropel that includes an online video library containing 24 video clips to help readers better apply key techniques covered in the book as well as fillable forms that students can use beyond the classroom A new chapter Training for Performance helps professionals expand their practice to work with recreational athletes who have performance related goals New information including the consequences of exercise induced muscle damage rhabdomyolysis devices used to track physical activity and estimate energy expenditure e g accelerometers relative flexibility and the role of lumbopelvic rhythm in back function the importance of progression in an exercise prescription and the professional standard of care associated with HIIT programs reflects recent topics of interest and research Updated statistics on CVD and CHD from the American Heart Association adult and childhood obesity and the prevalence of COPD asthma bronchitis and emphysema ensure accurate representation of data With a comprehensive and practical approach this text enables readers to help individuals communities and groups gain the benefits of regular physical activity in a positive and safe environment It provides background to the field scientific fundamentals and up to date recommendations to help readers better understand the role of physical activity in the quality of life and guidelines for screening testing supervising and modifying activity for various populations Note A code for accessing HKPropel is not included with this ebook but may be purchased separately

The Comprehensive Textbook of Healthcare Simulation Adam I. Levine, Samuel DeMaria Jr., Andrew D Schwartz, Alan J. Sim, 2013-06-18 The Comprehensive Textbook of Healthcare Simulation is a cohesive single source reference on all aspects of simulation in medical education and evaluation It covers the use of simulation in training in each specialty and is aimed at healthcare educators and administrators who are developing their own simulation centers or programs and professional organizations looking to incorporate the technology into their credentialing process For those already involved in simulation the book will serve as a state of the art reference that helps them increase their knowledge base expand their simulation program s capabilities and attract new additional target learners Features Written and edited by pioneers and experts in healthcare simulation Personal memoirs from simulation pioneers Each medical specialty covered Guidance on teaching in the simulated environment Up to date information on current techniques and technologies Tips from insiders on funding development accreditation and marketing of simulation centers Floor plans of simulation centers from across the United States Comprehensive glossary of terminology *Cumulated Index Medicus* ,2000 [Cardiology Secrets](#) Glenn N. Levine, 2009-07-30 Revised and updated Cardiology Secrets 3rd Edition has the answers Comprehensive yet easy to read Dr Levine presents all the latest advances in the diagnosis and treatment of heart conditions in this popular Secret Series volume A two color page layout portable size and a list of the Top 100 Secrets in cardiology help you better meet the

challenges you face today You'll find all the features you rely on from the Secrets Series a question and answer format lists mnemonics tables and an informal tone that make reference fast and easy Plus new imaging modalities and pharmacologic agents keep you on the cusp of the latest advances Expedites reference and review with a question and answer format bulleted lists mnemonics and practical tips from the authors Covers the full range of essential topics including general examination diagnostic procedures arrhythmias symptoms and disease states valvular heart disease cardiovascular pharmacology and other medical conditions with associated cardiac involvement Features Key Points boxes and lists of useful web sites to enhance your reference power Presents a chapter containing Top 100 Secrets providing you with an overview of essential material for last minute study or self assessment Presents a new editor and a new contributor team who bring you fresh perspectives and the latest research in cardiology Discusses the latest imaging modalities and pharmacologic agents to keep you up to date Uses a new contemporary internal design that helps you navigate the text easier **Practical**

Cardiology Tracey Baker, George Nikolic, Simon O'Connor, 2008 Cardiology is one of the fastest changing medical specialties and Practical Cardiology 2e is designed to help GPs Fellowship trainees and medical students master this vital element of continuing medical education This new edition retains the analytical and problem based approach of the first addressing symptomatic problems such as chest pains and dyspnoea thorough history taking and examination techniques additional and extensive ECG interpretation and fully updated coverage of pharmacological management Supplementary CD of cardiac conditions and procedures including echocardiograms cardiac catheters and angioplasties Dedicated ECG interpretation chapter Emphasis on evidence based medicine and clinical trials The accompanying CD contains MRI echocardiographic and angiographic images of the heart to complement the still images and illustrations throughout the text They illustrate important cardiac abnormalities and show how cardiac procedures such as angioplasty and atrial septal defect closure are performed Important complications of interventional procedures are also demonstrated The CD will assist clinicians and their patients to understand the various interventions **Manual of Perioperative Care in Adult Cardiac Surgery** Robert M.

Bojar, 2011-01-18 The fifth edition of Bojar's Manual of Perioperative Care in Adult Cardiac Surgery remains the gold standard for management of adult patients undergoing cardiac surgery The easily referenced outline format allows health practitioners of all levels to understand and apply basic concepts to patient care perfect for cardiothoracic and general surgery residents physician assistants nurse practitioners cardiologists medical students and critical care nurses involved in the care of both routine and complex cardiac surgery patients This comprehensive guide features Detailed presentation addressing all aspects of perioperative care for adult cardiac surgery patients Outline format allowing quick access to information Chronological approach to patient care starting with diagnostic tests then covering preoperative intraoperative and postoperative care issues Additional chapters discuss bleeding the respiratory cardiac and renal subsystems as well as aspects of care specific to recovery on the postoperative floor Updated references information on new drug indications and

new evidence to support various treatment management options Practical and accessible this new edition of Manual of Perioperative Care in Adult Cardiac Surgery is the essential reference guide to cardiac surgical patient care **Review**
Manual for the Certified Healthcare Simulation Educator Exam Linda Wilson,Ruth A. Wittmann-Price,2014-10-28 Print CourseSmart Principles of EMS Systems American College of Emergency Physicians,2006 Principles of EMS Systems Third Edition provides EMS personnel with an overview of the organization and operation of an EMS system both on a daily basis and in response to large scale events including terrorist and weapons of mass destruction incidents This book explores the role the medical director plays in EMS and discusses the importance of medical oversight and accountability By focusing on the collaborative interaction of EMS police and fire professionals along with emergency physicians emergency departments and hospitals this resource provides a framework for how these different groups must work together to ensure the emergency medicine health care safety net does not fail when it is needed the most

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