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 Cpr Guidelines

Christy Bowen, Lindsay Draper, Heather Moore

American Heart Association Cpr Guidelines:

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 AACN Procedure Manual for Progressive and Critical Care - E-Book AACN, 2023-07-07 American Journal of Nursing AJN Book of the Year Awards 1st Place in Critical Care Emergency Nursing 2024 Selected for Doody's Core Titles 2024 with Essential Purchase designation in Critical Care Edited by the American Association of Critical Care Nurses and written by more than 100 critical care experts under the direction of Karen L Johnson PhD RN FAAN this definitive reference represents the gold standard of care for procedures performed in progressive and critical care settings It guides you through procedures common to the adult critical care environment including those performed by advanced practice nurses in an illustrated step by step format This edition now in in full color features new procedures new and updated illustrations and updated content throughout reflecting the latest evidence based quidelines and national and international protocols Quick reference tabs make it easier than ever to locate content quickly This new edition integrates key AACN initiatives such as Practice Alerts and coordinates closely with the AACN Core Curriculum for Progressive and Critical Care Nursing 8th Edition Chapter specific guick links employ QR codes for instant access to high quality online references Edited by the American Association of Critical Care Nurses written by more than 100 expert critical care clinicians under the direction of Karen L Johnson PhD RN FAAN and extensively reviewed by more than 100 additional critical care experts to ensure the accuracy and currency Comprehensive coverage includes all procedures commonly performed in progressive and critical care settings including those performed by advanced practice nurses indicated by an AP icon Straightforward step by step organization uses consistent headings to make following

a procedure and finding the various supporting elements quick and easy with bulleted lists tables and detailed illustrations throughout to ensure that content is easy to reference and follow Rationales for all interventions in patient and family education assessment patient preparation procedure and monitoring help students understand the rationale for every step and a level of evidence is provided when a research base exists to substantiate an intervention giving insight into the strength of recommendations NEW Additional procedures new and updated illustrations and updated content throughout reflect the latest evidence based guidelines and national and international protocols NEW Full color design with color reference tabs enhances navigation plus full color illustrations reinforce understanding UPDATED Key AACN initiatives such as Practice Alerts are integrated throughout and content coordinates with the AACN Core Curriculum for Progressive and Critical Care Nursing 8th Edition NEW Chapter specific quick links via QR codes provide quick access to online references which have been updated and limited to the highest value sources ACLS Study Guide - E-Book Barbara J Aehlert, 2021-08-05 NEW Updated content includes the latest guidelines from the American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care and the International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science with Treatment Recommendations NEW 20 new illustrations are added to the book s hundreds of illustrations Clinical Nursing Skills Christy Bowen, 2024-09-16 Clinical Nursing Skills is designed to equip nursing students with the practical knowledge and hands on skills necessary to provide comprehensive patient care The material emphasizes the application of clinical judgment in a variety of settings ensuring that students are prepared to deliver high quality care across different patient populations and clinical scenarios. The content utilizes concepts promoting the development of clinical judgment by building upon the systematic model developed by the National Council of State Boards of Nursing NCSBN Clinical Nursing Skills provides detailed instructions on basic procedures such as hygiene mobility vital signs assessment medication administration and wound care It also guides students through more complex skills including intravenous therapy catheterization tracheostomy care and emergency interventions By integrating the Clinical Judgment Measurement Model the material helps students recognize analyze prioritize create act and evaluate outcomes in various clinical situations fostering critical thinking and clinical decision making By studying Clinical Nursing Skills students will gain the confidence and competence needed to perform essential nursing tasks make informed clinical decisions and provide compassionate patient centered care which will prepare students for success in their clinical rotations and future professional practice This is an adaptation of Clinical Nursing Skills by OpenStax You can access the textbook as pdf for free at openstax org Minor editorial changes were made to ensure a better ebook reading experience Textbook content produced by OpenStax is licensed under a Creative Commons Attribution 4 0 International License 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 Respiratory Care: Principles and Practice Dean R. Hess, Neil R. MacIntyre, William F. Galvin, 2020-01-15 More and boxes 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 **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 **Emergency Care and** Transportation of the Sick and Injured Advantage Package American Academy of Orthopaedic Surgeons (AAOS), 2021-02-12 Since 1971 Emergency Care and Transportation of the Sick and Injured has advanced how EMS education is delivered to help train exceptional EMS professionals around the globe Saunders Comprehensive Review for the NCLEX-RN® **Examination - E-Book** Linda Anne Silvestri, 2010-10-12 This title includes additional digital media when purchased in print format For this digital book edition media content is not included **HESI Comprehensive Review for the NCLEX-RN Examination** Sandra L. Upchurch, Traci Henry, Rosemary Pine, Amy Rickles, 2014 Second edition titled Evolve Reach comprehensive review for the NCLEX RN examination Emergency Medical Technician-ambulance United States. National Highway Traffic Safety Administration, 1984 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 **Fundamentals of Nursing** Christy Bowen, Lindsay Draper, Heather Moore, 2024-09-16 Fundamentals of Nursing aligns with the outcomes and

competencies of a nursing fundamentals course It is designed to provide students with the foundational knowledge and practical expertise essential for delivering holistic and patient centered care The authors emphasize the application of clinical judgment across diverse healthcare environments ensuring readiness to deliver high quality compassionate care in an inclusive and supportive manner Composed of 43 chapters Fundamentals of Nursing offers an in depth exploration of the roles and responsibilities of the nursing profession the healthcare environment and the application of critical thinking and evidence based practice Fundamentals of Nursing features a variety of engaging and informative resources designed to prepare students for real world clinical environments By simulating patient interactions students develop critical communication skills essential for effective nursing care Insights from practicing nurses provide real world perspectives helping bridge the gap between theory and practice The offering builds student confidence and competence through its focus on Quality and Safety Education for Nurses QSEN inclusion of robust unfolding case studies and integration of NCLEX practice This is an adaptation of Fundamentals of Nursing by OpenStax You can access the textbook as pdf for free at openstax org Minor editorial changes were made to ensure a better ebook reading experience Textbook content produced by OpenStax is licensed under a Creative Commons Attribution 4 0 International License Advances in Resuscitation Research and Application: 2012 Edition, 2012-12-26 Advances in Resuscitation Research and Application 2012 Edition is a ScholarlyBrief that delivers timely authoritative comprehensive and specialized information about Resuscitation in a concise format The editors have built Advances in Resuscitation Research and Application 2012 Edition on the vast information databases of ScholarlyNews You can expect the information about Resuscitation in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Advances in Resuscitation Research and Application 2012 Edition has been produced by the world's leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority Fitness Professional's confidence and credibility More information is available at http www ScholarlyEditions com Handbook Barbara A. Bushman, 2024-04-09 With a newly restructured framework that strongly emphasizes real world application Fitness Professional s Handbook Eighth Edition With HKPropel Access provides current and aspiring fitness professionals the road map for working with clients The text translates key concepts into practical application by guiding the reader through screening participants conducting fitness testing evaluating the major components of fitness and prescribing appropriate exercise This eighth edition reflects the most up to date research position stands guidelines and standards from the American College of Sports Medicine ACSM other professional societies and government agencies New case studies reflecting a diverse array of clients offer real world applications and Research Insight sidebars cover a wide range of applicable scientific topics Significant updates changes and additions have been made throughout including these An

updated overview of assessment that provides practical understanding of preparatory steps such as obtaining informed consent taking steps to maximize client safety and explaining test results in a way that will be meaningful and relevant A new chapter on how to combine assessment results with a client's personal goals to create a comprehensive exercise program readers will learn how to develop the optimal training stimulus and to balance activity level and nutritional requirements to optimize outcomes and safety for clients Expanded content on working with clients who are pregnant covering the benefits of exercise during and after pregnancy contraindications and signs that warrant stopping exercise and new content on pelvic floor training Updated content on chronic diseases featuring the latest information on cardiovascular disease pulmonary disease diabetes osteoporosis and cancer Additional new information includes two new muscular fitness tests a section on pharmacology that covers major drug categories and offers insights into how medications can affect heart rate blood pressure and physiological responses to exercise and coverage of neuromotor fitness The engaging full color textbook is further enhanced by 26 related online videos delivered through HKPropel facilitating a deeper understanding of techniques in the book and development of practical skills Comprehensive yet practical in nature Fitness Professional s Handbook is designed to prepare students for professional certification and empower current fitness professionals to work with various populations to improve health fitness and quality of life through appropriate screening testing and exercise prescription Note A code for accessing HKPropel is not included with this ebook but may be purchased separately Comprehensive Review for the NCLEX-PN® Examination - E-Book Linda Anne Silvestri, Angela Silvestri, 2024-01-04 Get the best review for the NCLEX PN exam from the leading NCLEX experts Written by Linda Anne Silvestri and Angela E Silvestri Saunders Comprehensive Review for the NCLEX PN Examination 9th Edition provides everything you need to prepare for success on the NCLEX PN The book includes a review of all nursing content areas more than 4 600 questions for the NCLEX detailed rationales test taking tips and strategies and questions for the Next Generation NCLEX NGN The Evolve companion website simulates the exam taking experience with customizable practice questions along with realistic practice tests Based on Silvestri's proven Pyramid to Success this complete review is a perennial favorite of students preparing for the NCLEX More than 4 600 practice questions in the text and on the Evolve companion website offer ample testing practice Detailed test taking strategy is included for each question offering clues for analyzing and uncovering the correct answer option with rationales provided for both correct and incorrect answers Pyramid Points icons indicate important information identifying content that is likely to appear on the NCLEX PN examination Pyramid Alerts appear in red text highlighting important nursing concepts and identifying content that typically appears on the NCLEX PN examination Priority Concepts two in each chapter discuss important content and nursing interventions and reflect the latest edition of Giddens Concepts for Nursing Practice text Priority Nursing Action boxes provide information about the steps nurses will take in clinical situations requiring clinical judgment and prioritization New graduate s perspective is offered on how to prepare for the

NCLEX PN in addition to nonacademic preparation the CAT format and test taking strategies Mnemonics are included to help you remember important information Alternate item format questions cover multiple response prioritizing ordered response fill in the blank figure illustration hot spot chart exhibit and audio questions Practice questions on the Evolve companion website are organized by content area cognitive level client needs area integrated process health problem clinical judgment and priority concepts allowing completely customizable exams or study sessions Audio review summaries on the Evolve companion website cover pharmacology acid base balance and fluids and electrolytes Phlebotomy Essentials Ruth E. McCall, 2023-08-11 Phlebotomy Essentials Eighth Edition provides accurate up to date and practical information and instruction in phlebotomy procedures and techniques along with a comprehensive background in phlebotomy theory and principles It is appropriate for use as an instructional text or as a reference for those who wish to update skills or study for national certification Enhanced with new images a more efficient design and new contributions from leading subject matter experts this updated edition details how today sphlebotomists work in an approach optimized for how today s students learn Combined with an optional Workbook Exam Review book and updated digital courseware the latest edition of Phlebotomy Essentials represents a cornerstone of preparation for a successful career in phlebotomy **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 guizzes 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 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

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