

# 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 Cpr Guidelines 23

**Brendan T. Finucane, Ban C.H.  
Tsui, Albert Santora**



### **American Heart Association Cpr Guidelines 23:**

*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 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

Sanders' Paramedic Textbook Mick J. Sanders, Kim McKenna, American Academy of Orthopaedic Surgeons (AAOS), 2024-01-17 Based on current guidelines standards and medical research in the EMS field Sanders Paramedic Textbook Sixth Edition is both a comprehensive learning tool for paramedic students and reliable desk reference for emergency physicians This critical resource includes in depth explorations of key subjects such as pathophysiology pharmacology airway management medical disorders patient assessment and trauma *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

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Alexander Nadel ,Kristin Yvonne Rozier,2023-10-13 The Conference on Formal Methods in Computer Aided Design FMCAD is an annual conference on the theory and applications of formal methods in hardware and system in academia and industry for presenting and discussing groundbreaking methods technologies theoretical results and tools for reasoning formally about computing systems FMCAD covers formal aspects of computer aided system testing **Cardiac Intensive Care E-Book**

Allen Jeremias,David L. Brown,2010-05-15 The new edition of Cardiac Intensive Care the only textbook dedicated to cardiac intensive care medicine chronicles the progress made in the diagnosis assessment and treatment of patients with critical cardiac illness Editors Allen Jeremias MD MSc and David L Brown MD present the landmark discoveries greater understanding of syndromes and technological advancements that have helped make clinical cardiology a progressive and interventional field You ll get coverage of the plethora of noncoronary diseases in the CICU as well as a complete compendium of up to date pharmacologic agents The new full color design and layout and nine new chapters give you the latest theoretical technical diagnostic and therapeutic advances in an accessible and visually appealing format Features the authoritative perspectives of a stellar group of contributors many of whom are the pioneers in the fields they cover for the best available guidance Provides the basic science framework for the clinical material through a section on the scientific foundation of cardiac intensive care to give you the complete picture Presents a pharmacological introduction to the classes of drugs so you know which are most commonly used in the CICU Covers which noncoronary diseases frequently result in admittance to the CICU to prepare you for those diagnoses that are not of a cardiac nature Features nine new chapters Quality Assurance and Improvement in the Cardiac Intensive Care Unit Physical Examination in the CICU Mechanical Treatments for Acute ST Elevation MI Non ST Elevation Myocardial Infarction Diagnosis Prognosis Risk Stratification and Management Glycoprotein IIb IIIa Inhibitors Vascular Access Procedures Ventilator Management for the Cardiac Patient Management of Post Operative Complications in the Cardiac Surgery Patient Guidelines Relevant to Care in the Cardiac Intensive Care Unit to keep the book and you up to date Presents the text in a new full color design and layout for a more visually appealing and accessible format that makes finding the information you need quick and easy *Rosen's Emergency Medicine - Concepts and Clinical Practice E-Book* Ron Walls,Robert Hockberger,Marianne Gausche-Hill,Timothy B. Erickson,Susan R. Wilcox,2022-06-13 For nearly 40 years Rosen's Emergency Medicine has provided emergency physicians residents physician assistants and other emergency medicine practitioners with authoritative accessible and comprehensive

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