



CPR Quality

- Push hard (at least 2 inches [5 cm]) and fast (100-120/min) and allow complete chest recoil.
- Minimize interruptions in compressions.
- Avoid excessive ventilation.
- Change compressor every 2 minutes, or sooner if fatigued.
- If no advanced airway, 30:2 compression-ventilation ratio.
- Quantitative waveform capnography
 - If P_{ETCO_2} is low or decreasing, reassess CPR quality.

Shock Energy for Defibrillation

- Biphasic:** Manufacturer recommendation (eg, initial dose of 120-200 J; if unknown, use maximum available. Second and subsequent doses should be equivalent, and higher doses may be considered.
- Monophasic:** 360 J

Drug Therapy

- Epinephrine IV/IO dose:** 1 mg every 3-5 minutes
- Amiodarone IV/IO dose:** First dose: 300 mg bolus. Second dose: 150 mg, or
- Lidocaine IV/IO dose:** First dose: 1-1.5 mg/kg. Second dose: 0.5-0.75 mg/kg.

Advanced Airway

- Endotracheal intubation or supraglottic advanced airway
- Waveform capnography or capnometry to confirm and monitor ET tube placement
- Once advanced airway in place, give 1 breath every 6 seconds (10 breaths/min) with continuous chest compressions

Return of Spontaneous Circulation (ROSC)

- Pulse and blood pressure
- Abrupt sustained increase in P_{ETCO_2} (typically ≥ 40 mm Hg)
- Spontaneous arterial pressure waves with intra-arterial monitoring

Reversible Causes

- Hypovolemia
- Hypoxia
- Hydrogen ion (acidosis)
- Hypo-/hyperkalemia
- Hypothermia
- Tension pneumothorax
- Tamponade, cardiac
- Toxins
- Thrombosis, pulmonary
- Thrombosis, coronary

New Aha Guidelines For Bls

**Mark Anderson,Donald
Heistad,Richard E Kerber**



New Aha Guidelines For Bls:

Manual of Electrophysiology Mark Anderson, Donald Heistad, Richard E Kerber, 2015-03-10 *Manual of Electrophysiology* is a comprehensive guide to cardiac electrophysiology brought together by a team of US based experts in this field The book focuses on current understanding and the most recent advances in electrophysiology Consisting of 16 chapters the book begins with basic understanding of the mechanisms of arrhythmia irregular heartbeat the pharmacology of antiarrhythmic drugs and an introduction to electrophysiology studies Various arrhythmias are discussed in detail from tachycardia and bradycardia to cardiomyopathy and Brugada Syndrome The latter part of the book provides a number of therapeutic guidelines for heart conditions including surgical and catheter ablation of cardiac arrhythmias cardiac resynchronisation therapy and ambulatory electrocardiographic monitoring With 350 full colour images and illustrations enhancing practical advice on the diagnosis and therapy of cardiac diseases *Manual of Electrophysiology* provides indispensable guidance for physicians clinicians and cardiologists **Key Points** Essential guide to cardiac electrophysiology from a team of experts at the Universities of California and Iowa Discusses the most recent advances in the field Provides therapeutic guidelines for a number of heart conditions 350 full colour images and illustrations

E-Book Ross M. Ungerleider, Kristen Nelson McMillan, David S. Cooper, Jon N. Meliones, Jeffrey Jacobs, 2018-09-26 Selected for Doody's Core Titles 2024 with Essential Purchase designation in Pediatric Surgery Now in brilliant full color and reflecting recent significant changes in the field *Critical Heart Disease in Infants and Children* 3rd Edition keeps you abreast of the skills and knowledge required to safely care for children with congenital and acquired heart disease in the ICU Pediatric intensivists cardiologists cardiac surgeons and anesthesiologists from leading centers around the world provide a well rounded perspective on basic scientific principles medical and pharmacologic treatments surgical techniques and equipment Features comprehensive updates throughout the text including indications techniques potential complications in perioperative management of patients and surgical techniques for congenital heart disease Covers recent advances in the treatment of pulmonary hypertension developments in mechanical assist devices heart and lung transplantation and interventional cardiac catheterization Features an all new full color format that speeds navigation and helps clarify complex concepts Contains 27 new chapters with an emphasis on the team approach to patient care in the ICU including creating multidisciplinary teams quality and performance improvement training and challenges and solutions to developing a cohesive team environment Includes a detailed chapter on bedside ultrasound walking you through the techniques you're most likely to encounter in the ICU Employs well documented tables text boxes and algorithms to make clinical information easy to access and more than two dozen video clips provide a more complete understanding of echocardiography imaging modalities pulmonary hypertension and more Describes the basic pharmacology and clinical applications of new pharmacologic agents Examines issues affecting adults with congenital heart disease Enhanced eBook version included with purchase Your

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Praveen Khilnani,Santosh T Soans,Vinayak Patki,2019-05-31 Section 1 Basic and Advanced Life Support 1 Approach to a Sick

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Guidelines for Cardiac Rehabilitation and Secondary Prevention Programs-5th Edition (with Web Resource) American Association of Cardiovascular & Pulmonary Rehabilitation,2013-08-02 Guidelines for Cardiac Rehabilitation and Secondary Prevention Programs Fifth Edition 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 **A Practical Guide to Pediatric Emergency Medicine** N. Ewen Amieva-Wang,2011-08-11 Practical guide for emergency physicians providing all the information needed to diagnose and treat common and uncommon pediatric disorders

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