

The Ultimate ACLS Study Guide

ADVANCED CARDIAC LIFE SUPPORT (ACLS) COURSE
EMERGENCY RESPONSE FOR ADULTS WITH CARDIOVASCULAR DYSFUNCTION



EKG Anatomy



P Wave - atrial depolarization activity in the lower right atrium
QRS Complex - ventricular depolarization activity in the lower left ventricle
T Wave - ventricular repolarization activity in the lower left ventricle
ST Segment - the interval between the end of the QRS complex and the beginning of the T wave. It represents the time when the ventricles are fully depolarized and the electrical current is flowing through the heart.

ECG Rhythms

- Ventricular Fibrillation** - Irregular, chaotic, and disorganized electrical activity. Immediate defibrillation.
- Ventricular Tachycardia** - Rapid, regular, and organized electrical activity. Pacing 100-120 bpm.
- Supraventricular Tachycardia** - Rapid, regular, and organized electrical activity. Pacing 100-120 bpm.
- Abrystole** - No electrical activity. CPR immediately.
- Sinus Bradycardia** - Slow, regular, and organized electrical activity. Pacing 60 bpm.
- 1st Degree AV Block** - Prolonged PR interval. Pacing 60 bpm.
- 2nd Degree Block Type I - Wenckebach** - Progressive PR prolongation followed by a dropped QRS.
- 2nd Degree Block Type II - Mobitz** - Dropped QRS without PR prolongation.
- 3rd Degree Block** - Complete dissociation between P waves and QRS.
- Sinus Tachycardia** - Rapid, regular, and organized electrical activity.
- Supraventricular Tachycardia** - Rapid, regular, and organized electrical activity.
- Polymorphic Ventricular Tachycardia** - Rapid, irregular, and organized electrical activity.
- Polymorphic Ventricular Tachycardia** - Rapid, irregular, and organized electrical activity.
- Torsades de Pointes** - Rapid, irregular, and organized electrical activity.

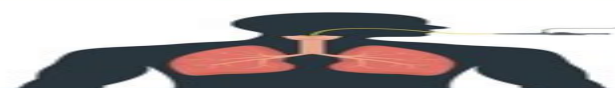


Electrical Therapy Basics



- Defibrillation** - Used to treat ventricular fibrillation (VF) and pulseless ventricular tachycardia (VT).
- Synchronized Cardioversion** - Used to treat atrial fibrillation (AF), atrial flutter (AFL), and supraventricular tachycardia (SVT).
- Transcutaneous Pacing** - Used to treat bradycardia and asystole.

Airway Management



- Adjuvants** - Used to facilitate intubation.
- Endotracheal Tube (ETT)** - Used for mechanical ventilation.
- Supraglottic Airway** - Used for temporary airway management.
- Respiratory Support** - Used to provide oxygenation and ventilation.

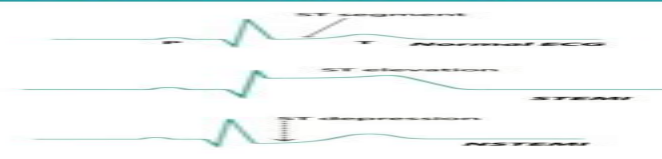
Post-Resuscitation Care



- Follow the ABCs** - Airway, Breathing, Circulation.
- Temperature** - Maintain normothermia.
- Glucose** - Maintain blood glucose levels.
- Electrolytes** - Monitor and correct electrolyte imbalances.
- Coagulation** - Monitor and correct coagulation abnormalities.
- Organ Protection** - Monitor and protect organ function.

Acute Coronary Syndromes (ACS)

- Unstable Angina** - Chest pain at rest or with minimal exertion.
- ST Segment Elevation MI (STEMI)** - Chest pain with ST segment elevation on ECG.
- Non-ST Segment Elevation MI (NSTEMI)** - Chest pain with ST segment depression or T wave inversion on ECG.



Stroke Assessment and Treatment

- Stroke Assessment** - Use the Cincinnati Prehospital Stroke Scale (CPSS) to assess for stroke.
- Stroke Treatment** - Administer aspirin and tPA if appropriate.
- Stroke Prevention** - Manage risk factors such as hypertension, diabetes, and smoking.

Code Termination

- Consult with medical control** before code termination.
- Document** the code termination and the reasons for termination.
- Provide** appropriate post-resuscitation care.

This document is for informational purposes only and should not be used as a substitute for professional medical advice.

15 Acls Study Guide

William Panek



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ACLS Study Guide - E-Book Barbara J Aehlert, 2011-12-08 Reflecting the 2010 Emergency Cardiovascular Care guidelines ACLS Study Guide 4th Edition offers a complete full color overview of advanced cardiovascular life support An easy to read approach covers everything from airway management and rhythms and their management to electrical therapy acute coronary syndromes and acute stroke In addition to the latest ACLS treatment algorithms this edition includes new case studies new photos and illustrations a heart rate ruler and a handy ACLS quick reference card for use in the field Written by Barbara Aehlert ACLS Study Guide is the official textbook for the American Safety Health Institute ACLS certification course A pretest and posttest each containing 50 questions with answers and rationales allow you to check your knowledge prior to and after your study Chapter objectives preview the main points in each chapter Stop and Review sections at the end of the chapters help you remember the most important information ACLS Pearls boxes offer key points and useful tips for clinical practice Keeping it Simple boxes provide essential information in a clear and concise manner Ten case studies present real life clinical situations allowing you to make decisions based on information in the Preparatory section Consistent format of case studies includes Objective Skills to Master Rhythms to Master Medications to Master Related Text Chapters Essential Actions and Unacceptable Actions A heart rate ruler is included to help you interpret ECGs 4 x 6 pocket size quick reference card contains key ACLS algorithms for field use 100 new and updated photos and illustrations show key ACLS procedures and equipment Pharmacological interventions are integrated into the chapters for a more cohesive learning experience New streamlined approach reduces the number of pages and simplifies the information you need to know Paramedic Practice Today: Above and Beyond: Volume 1 Aehlert, Robert Vroman, 2011 Providing the tools you need to succeed the two volume set of Paramedic Practice Today Above and Beyond offers a solid foundation for paramedic practice and is now updated to reflect the 2010 emergency cardiovascular care guidelines A conversational easy to read style simplifies topics and helps you master National Standard Curriculum objectives and meet the new National Education Standards Each volume includes a companion DVD ROM with step by step videos demonstrating the skills in the textbook and more Because this two volume set corresponds to the National Registry of EMTs National EMS Practice Analysis it provides you with the best possible preparation for the National Registry exam Publisher's website *ACLS Quick Review Study Guide* Barbara Aehlert, 1994 The first full color ACLS Advanced Cardiac Life Support study guide in print follows the American Heart Association's topic format to help readers prepare for the ACLS Certification Examination Well organized with current AHA guidelines the guide covers learner objectives algorithms multiple quizzes pretests and post tests to thoroughly cover required material 62 illus 45 in color *ACLS Study Guide* Barbara Aehlert, 2007 Written in a conversational style the 3rd edition of the ACLS Study Guide features unique user friendly and easy to remember treatment algorithms totally revised to reflect the 2005 emergency cardiac care guidelines Full color throughout it offers a complete

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enable you to quickly change a patient's infusion dose and titrate the drug to reduce the chance of medication errors Nursing Considerations in each drug monograph offer practical information on administration and monitoring Trade and generic drug name indexes help you find information quickly no matter what name is used A handy reference to ACLS guidelines allows you to quickly see how infusion therapy fits into the ACLS protocol

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Association guidelines on Positioning Airway Breathing Circulation and Definitive management and explain the relevance of these guidelines to the topic being discussed Chapters are organized into sections based upon types of common emergency situations Chapter on Preparation includes an updated emergency drug and equipment kit to reflect materials that are safe and currently available on the market Full color drawings and updated photographs add realism to situations and equipment Information on AEDs Automated Electronic Defibrillators explains why these should be mandatory in every dental practice and describes how to use these devices properly A Pediatric Considerations chapter covers pediatric CPR and guidelines for basic life support A Medicolegal Considerations chapter discusses topics such as theories of liability definitions of emergencies and standards and limitations and requirements of the doctor patient relationship An Evolve website contains the Instructor s Resource Manual an electronic image collection and an ExamView test bank

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