

# The Ultimate ACLS Study Guide

ADVANCED CARDIAC LIFE SUPPORT (ACLS) COURSE  
EMERGENCY RESPONSE TO LIFE-THREATENING CARDIOVASCULAR CONDITIONS



## 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 segment between the QRS complex and the T wave, representing the time between ventricular depolarization and repolarization.

## ECG Rhythms

- Ventricular Fibrillation** - Irregular, chaotic, and disorganized electrical activity.
- Ventricular Tachycardia** - Rapid, regular, and narrow QRS complex.
- Supraventricular Tachycardia** - Rapid, regular, and narrow QRS complex.
- Atrial Fibrillation** - Irregular, chaotic, and disorganized electrical activity.
- Sinus Bradycardia** - Slow, regular, and narrow QRS complex.
- 1st Degree AV Block** - Prolonged PR interval.
- 2nd Degree Block Type I - Wenckebach** - Progressive PR interval prolongation.
- 2nd Degree Block Type II - Mobitz** - Fixed PR interval with dropped QRS complexes.
- 3rd Degree Block** - Complete dissociation between P waves and QRS complexes.
- Sinus Tachycardia** - Rapid, regular, and narrow QRS complex.
- Supraventricular Tachycardia** - Rapid, regular, and narrow QRS complex.
- Polymorphic Ventricular Tachycardia** - Rapid, irregular, and wide QRS complex.
- Torsades de Pointes** - Rapid, irregular, and wide QRS complex.



## 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.
- Tracheostomy** - Used for long-term airway management.

## Post-Resuscitation Care



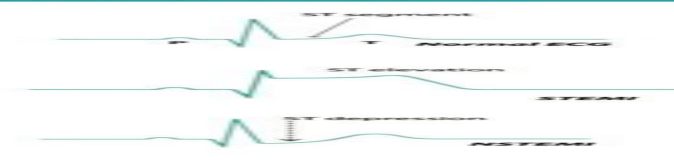
- Follow the ABCs** - Airway, Breathing, Circulation.
- Temperature** - Maintain normothermia.
- Glucose** - Maintain normoglycemia.
- Electrolytes** - Maintain normoelectrolytemia.
- Acid-Base** - Maintain normoacidemia.
- Coagulation** - Maintain normocoagulation.
- Organ Perfusion** - Maintain adequate organ perfusion.
- Neurological** - Monitor for neurological injury.
- Psychological** - Provide psychological support.

## Acute Coronary Syndromes (ACS)

- Unstable Angina** - Chest pain at rest, not relieved by nitroglycerin.
- Myocardial Infarction (MI)** - Chest pain with ST-segment elevation or Q-wave formation.
- Angioplasty** - Used to open a narrow or blocked artery.

- ST Segment Elevation MI (STEMI)** - Chest pain with ST-segment elevation.
- Non-ST Segment Elevation MI (NSTEMI)** - Chest pain without ST-segment elevation.
- Unstable Angina** - Chest pain without ST-segment elevation or Q-wave formation.

- STEMI Treatment** - Aspirin, P2Y12 inhibitor, statin, beta-blocker, ACE inhibitor.
- NSTEMI Treatment** - Aspirin, P2Y12 inhibitor, statin, beta-blocker, ACE inhibitor.
- Unstable Angina Treatment** - Aspirin, P2Y12 inhibitor, statin, beta-blocker, ACE inhibitor.



## Stroke Assessment and Treatment

Stroke is a medical emergency. The goal is to identify the type of stroke and treat it as quickly as possible.

### Cincinnati Prehospital Stroke Scale:

1. Face
2. Arm
3. Leg



## Code Termination

Consult with medical control before code termination.

- 1. Unresponsive for at least 20 minutes or longer.
- 2. No signs of life or cardiac activity after resuscitation efforts.



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# Acls Study Guide 4 Aehlert

**Mosby**



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*Mosby's PDQ for RN - E-Book* Mosby, 2015-11-18 Find essential nursing information at a glance Mosby's PDQ for RN Practical Detailed Quick 4th Edition is an easy to use pocket sized guide to important facts formulas and procedures used in the clinical setting It offers quick access to details you need but don't usually memorize such as signs and symptoms medications conversions abbreviations and normal abnormal ranges for lab tests Durable pages and spiral binding can withstand the wear and tear of daily use on the job When in doubt check this handy reference 10 tabbed color coded sections provide quick access to essential facts formulas lab values procedures and more Compact size features durable water resistant pages and spiral binding making the book easy to carry and use in any clinical setting A focus on special populations includes separate sections on pediatric maternity and geriatric patients Emergency Care section provides guidelines for treating stroke patients assessing trauma patients and responding to cardiopulmonary arrest HIPAA and OSHA compliant information reflects the latest practice standards and guidelines Colorful charts and tables make lookup easy and data is thorough enough for even experienced practicing nurses NEW Expanded coverage addresses oxygen delivery hypoglycemic drugs cardiac rhythms STEMI seizure treatment breath sounds and more NEW assessment tools are included for pain nutrition and alcohol abuse UPDATED content reflects the latest clinical developments screening guidelines and drug information     Respiratory Care: Principles and Practice Dean R. Hess, Neil R. MacIntyre, William F. Galvin, 2020-01-15 More 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     **Pediatric Advanced Life Support Study Guide** Barbara Aehlert, 2005 The second edition of this study guide by popular author Barbara Aehlert incorporates both prehospital and hospital management of pediatric emergencies In a concise easy to read outline format Pediatric Advanced Life Support Study Guide 2nd Edition provides the most essential information a provider needs Pediatric Advanced Life Support Study Guide 2nd Edition reflects the 2000 emergency cardiovascular care guidelines It is also the approved text for the American Safety contact your sales representative for details An outline format featuring bulleted lists concise tables and a user friendly writing style makes this comprehensive text incredibly easy to read and understand A Pretest and a Posttest consisting of multiple choice true false fill in the blank and essay questions tests readers overall comprehension of the material PALS Pearl Boxes help readers apply information covered in the text to real life clinical situations Sidebars contain additional information relevant to the topics covered in the chapter giving readers an opportunity for further learning A laminated quick reference card gives practitioners easy access to critical information in the field or hospital This convenient card includes essential information regarding respiratory and heart rates blood pressure basic life support interventions Glasgow Coma Scale airway size and equipment selection for intubation corresponding to the Broselow Resuscitation Tape several pediatric algorithms and pain assessment tools FREE quick reference card included     **NULL**

Lynn Fitzgerald Macksey, Kelly L. Wiltse Nicely, 2013-02-20      **AACN Procedure Manual for Critical Care - E-Book**  
 American Association of Critical-Care Nurses, 2010-08-06 The AACN Procedure Manual for Critical Care 6th Edition presents procedures for the critical care environment in an illustrated consistent and step by step format The Procedures and Patient Monitoring sections are presented in a tabular format that includes special considerations and rationales for each intervention References have been meticulously reviewed to ensure that the most authoritative and timely standards of practice are used Additionally the references supporting care recommendations are identified according to the latest AACN Evidence Leveling System to ensure that you have a complete understanding of the strength of the evidence base UNIQUE AACN sponsored content ensures the highest standards of practice Comprehensive clear easy to use format allows you to quickly find and review the exact content you need Rationales provide complete information on every procedure Identified AP procedures help you judge whether a procedure is in your scope of practice Patient safety highlighted with new icons for patient identification and time out Joint Commission Universal Protocols CDC Standard Precautions for hand washing and applying protective clothing and equipment highlighted with new icons UNIQUE Clarity of Evidence Leveling helps you quickly grasp the strength of the evidence supporting the care recommendations Reviewed and Updated References comply with the highest standards of critical care practice Alphabetical procedures index inside the front cover provides easy access Reader friendly design changes make it easier to identify and utilize special features      **Mosby's PDQ for LPN - E-Book**  
 Mosby, 2015-11-27 NEW Expanded coverage addresses oxygen delivery hypoglycemic drugs cardiac rhythms STEMI seizure treatment breath sounds and more NEW assessment tools are included for pain nutrition and alcohol abuse UPDATED content reflects the latest clinical developments screening guidelines and drug information      **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 concise overview of advanced cardiovascular life support ACLS acute coronary syndromes and acute stroke It also features easy to access information with Stop and Review quizzes in each chapter and a comprehensive pretest and posttest New to this edition are a handy ACLS quick reference fold out card a heart rate ruler and more In addition to being an outstanding study tool the ACLS Study Guide 3rd Edition is the official text for the American Safety and Health Institute ACLS certification course For more information on ASHI courses call 800 246 5101 or visit [www.ashinstitute.com](http://www.ashinstitute.com) A pretest and posttest each containing 50 questions with answers and rationales provide readers with opportunities to check comprehension prior to and after study Chapter Objectives allow readers to preview the main points in each chapter Quick Review boxes throughout the chapters and Stop and Review sections at the end of the chapters test reader comprehension of the material Chapters 1 8 comprise a Preparatory section to provide the foundation for the case presentations in the second section Ten case studies present real life clinical situations enabling the reader to make decisions

based on information in the Preparatory section Consistent organization of case studies include Objective Skills to Master Rhythms to Master Medications to Master Related Text Chapters Questions Answers Essential Actions and Unacceptable Actions to aide in the study and mastery of material Unique treatment algorithms totally revised to reflect the 2005 emergency cardiac care guidelines simplify the new treatment guidelines making them easier to use and remember Chapter on Stroke has now been expanded to include Special Resuscitation Situations ACLS Pearl boxes contain key points and useful tips for clinical practice Keeping it Simple boxes contain essential information in a clear and concise manner A heart rate ruler is included to help determine heart rate while practicing ECG recognition A 4 x 6 pocket size quick reference card with key ACLS algorithms is included for field use Vascular Access and Medications combined into one chapter to present venous circulation information with all relevant common medications used during a cardiac related emergency *ACLS Study Guide* Barbara J. Aehlert,2021-11 **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 *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 **Mosby's Comprehensive Pediatric Emergency Care** Barbara Aehlert,2005 Mosby s Comprehensive

Pediatric Emergency Care is the first text to incorporate both prehospital and hospital management of pediatric emergencies. This unique text provides in depth coverage of every area of pediatric emergency care making it ideal for prehospital providers, physicians, nurses and other health care professionals who treat pediatric patients. This new text reflects the 2000 American Heart Association Emergency Cardiovascular Care guidelines and includes pediatric advanced life support. This is the approved textbook for the American Safety contact your sales representative for details. Includes pediatric advanced life support. An outline format featuring bulleted lists, concise tables and a user friendly writing style makes this comprehensive text incredibly easy to read and understand. A laminated quick reference card gives practitioners easy access to critical information in the field or hospital. This convenient card includes essential information regarding respiratory and heart rates, blood pressure, basic life support interventions, Glasgow Coma Scale, airway size and equipment selection for intubation corresponding to the Broselow Resuscitation Tape, several pediatric algorithms and pain assessment tools. PEDS Pearl boxes help readers apply information covered in the text to real life clinical situations. A Medication Chart in Chapter 8 features an alphabetical listing of medications commonly used in pediatric emergency care helping readers learn the basics of common medications at a glance. Sidebars contain additional information relevant to the topics covered in the chapter giving readers an opportunity for further learning. Chapter quizzes help readers gauge their comprehension of the chapter. Glossary at the end of the book allows readers to look up words quickly and easily. A Pretest and a Posttest consisting of multiple choice, true/false, fill in the blank and essay questions test readers overall comprehension of the material. Contains a FREE laminated quick reference card.

[ACLS Quick Review Study Cards](#) Barbara Aehlert, Barbara J Aehlert, Msed Bspa RN, 1994. Perforated cards in a book format feature a review question and ECG tracing on the front of the card with the answer and rationale on the back. Color coded cards are designed to correspond with discussions in the author's text. ACLS Quick Review Study Guide 500 cards.

**Emergency Medical Services**, 2002. *ACLS Study Guide* Barbara J. Aehlert, 2011-12-08. Reflecting the 2010 Emergency Cardiovascular Care guidelines, this title offers a full color overview of advanced cardiovascular life support. It features an easy to read approach that provides coverage ranging from airway management and rhythms and their management to electrical therapy, acute coronary syndromes and acute stroke.

**Pediatric Advanced Life Support** Barbara Aehlert, President Southwest Ema Education Inc, Phoenix, Arizona. Barbara Aehlert, R.N., Aehlert, 1996. A full color PALS study guide. This popular study guide summarizes the basic concepts presented in the AHA course and provides an opportunity for self evaluation through its question and referenced answer format. Includes a comprehensive pre test and post test and four additional chapter quizzes. Answers are referenced to 1992 JAMA and AHA PALS text.

**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      **Mosby's EMT-Intermediate and Paramedic Certification Preparation and Review** Daniel Mack, Keith Wesley, 2003-07 This new book provides a comprehensive review of material covered in both the EMT I and Paramedic national standard curricula More than 1600 questions consist of multiple choice fill in the blank and discussion questions Fifty illustrations form the basis for certain questions within the book Other questions are written in a scenario based format This is the only review book to cover both intermediate and paramedic certification Numerous scenario based questions let students solve real life problems Questions are grouped by subject within each chapter allowing students to test their knowledge of particular subjects without having to wade through unrelated questions Comprehensive rationales help students understand why a particular answer is right or wrong the rationales provide additional instruction and review Answer sections are clearly marked with solid bars along the page margin helping students find the answers quickly A sample final exam covers information from all areas of the US DOT curriculum and prepares students for certification      **The Software Encyclopedia** ,1986      ACLS Study Guide Barbara Aehlert, 2006-09      **Paramedic Field Care** American College of Emergency Physicians, 1998-02 ACEP S Paramedic Field Care is a core paramedic textbook that supports the EMT Paramedic National Standard Curriculum yet moves in a bold new direction Its patient presentation complaint based approach encourages linkage of information gleaned from lectures and books to actual field care

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3 never cut anything but hair with haircutting shears 4 do not force shear blades through a section of hair if there is resistance section off a thinner parting for cutting 5 avoid contact

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haircutting technique similar to scissor over comb except that the clippers move side to side across the comb rather than bottom to top cross checking parting the haircut in the opposite

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