

# The Ultimate ACS Study Guide

Advanced Cardiac Life Support (ACLS) provides guidelines for healthcare professionals for all types of cardiac emergencies.



## EKG Anatomy



**P-Wave** = electrical activity in the upper heart chambers; represents contraction of SA node and AV node.

**PR Interval** = time from P wave to QRS complex.

**QRS Complex** = ventricular depolarization.

**ST Segment** = ventricular repolarization.

**T-Wave** = polarization of upper heart.

## ECG Rhythms

**Ventricular Fibrillation** - no organized blood, immediate defibrillation.

**Ventricular Tachycardia** - ventricular arrhythmia; heart rate 100-250 bpm, immediate cardioversion.

**P纈tential &逸搏 (Fibrillation Activity)** - fibrillation is fibrillation but activity is fibrillation and immediate CPR.

**Atrial Fibrillation** - on EKG, if leads are all connected, begin CPR immediately.

**Sinus Bradycardia** - rate less than 60 bpm, 60 beats/minute, pharmacological if symptomatic.

**1st Degree AV Block** - prolonged P-R interval, fibrillarity.

**2nd Degree Block Type I - Wenckebach** - progressive PR interval lengthening, fibrillarity requires treatment.

**2nd Degree Block Type II - Mobitz** - ventricular fibrillation, fibrillarity.

**3rd Degree Block** - fibrillation, SA and AV fibrillarity.

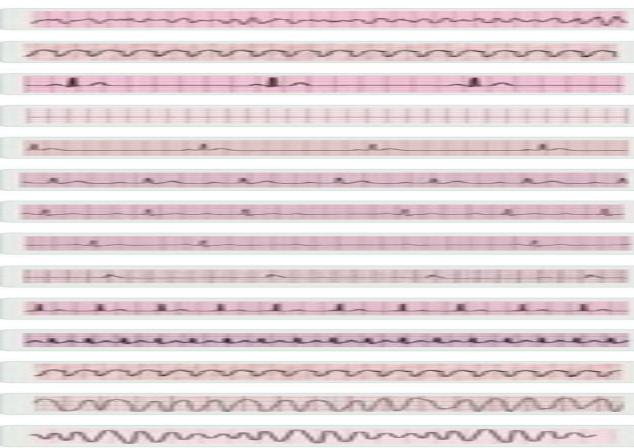
**Sinus Tachycardia** - increased heart rate of 100-150 beats per minute, pharmacological if symptomatic.

**Supraventricular Tachycardia** - irregular heart rate with P waves when heart rate is 100-250 bpm, immediate cardioversion.

**Monomorphic Ventricular Tachycardia** - pharmacological for stable patients, immediate cardioversion.

**Polyomorphic Ventricular Tachycardia** - cardioversion, then cardioversion and CPR.

**Torsades de Pointes** - different types of QRS complexes form a spiral pattern on EKG, immediate cardioversion - treat with magnesium.



## Electrical Therapy Basics



### Airway Management



**Defibrillation** - uses an automated external defibrillator (AED).

**Stroke-Related Cardioversion** - shock synchronized to the heart's point.

**Transcutaneous Pacing** - treats abnormally slow heart rate.

### Post-Resuscitation Care



#### Follow the ABCDs:

- Airway - maintain ventilation and oxygenation
- Breathing - keep PETCO<sub>2</sub> between 35-40mmHg
- Circulation - maintain mean arterial pressure of 90mmHg
- Differential Diagnosis - use H&Ts to determine contributing factors to cardiac arrest

## Acute Coronary Syndromes (ACS)

### Unstable Angina

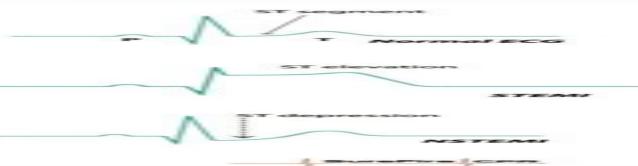
- unexpected chest pain due to poor blood flow
- blood thinners
- aspirin

### ST-Segment Elevation MI (STEMI)

- total blockage of a coronary artery
- electrical activity during the ST-segment shows ST-segment elevation
- coronary intervention (PCI) or emergency CABG surgery

### Non-ST-Segment Elevation MI (NSTEMI)

- partial blockage of a coronary artery
- ST-segment depressed instead of elevated, no thrombolytic therapy
- pharmacotherapy, immediate percutaneous coronary intervention (PCI) or emergency CABG surgery



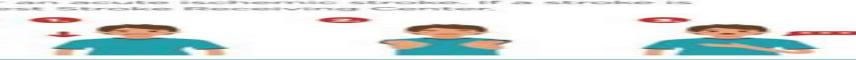
## Stroke Assessment and Treatment

Cardiovascular disease is a frequent complication after an acute ischemic stroke. If a stroke is suspected, immediately transport to the nearest Stroke Receiving Center.

### Cincinnati Prehospital Stroke Scale:

1. Age over 60
2. Arm drift
3. Speech

“You can't teach an old dog new tricks”



### Code Termination

Consult with medical control before code termination.



- 1. Persistent asystole 25 minutes or longer
- 2. Obvious signs of death, withhold resuscitation efforts

Disclaimer: Information on this page is for informational and educational only and should not be used as a substitute for professional medical advice or treatment.

## Acls Study Guide 4 Aehlert

**Dean R. Hess, Neil R.  
MacIntyre, William F. Galvin**

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**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

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### **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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## **Table of Contents Acls Study Guide 4 Aehlert**

1. Understanding the eBook Acls Study Guide 4 Aehlert
  - The Rise of Digital Reading Acls Study Guide 4 Aehlert
  - Advantages of eBooks Over Traditional Books
2. Identifying Acls Study Guide 4 Aehlert
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Acls Study Guide 4 Aehlert
  - User-Friendly Interface
4. Exploring eBook Recommendations from Acls Study Guide 4 Aehlert
  - Personalized Recommendations
  - Acls Study Guide 4 Aehlert User Reviews and Ratings

- Acls Study Guide 4 Aehlert and Bestseller Lists
- 5. Accessing Acls Study Guide 4 Aehlert Free and Paid eBooks
  - Acls Study Guide 4 Aehlert Public Domain eBooks
  - Acls Study Guide 4 Aehlert eBook Subscription Services
  - Acls Study Guide 4 Aehlert Budget-Friendly Options
- 6. Navigating Acls Study Guide 4 Aehlert eBook Formats
  - ePUB, PDF, MOBI, and More
  - Acls Study Guide 4 Aehlert Compatibility with Devices
  - Acls Study Guide 4 Aehlert Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Acls Study Guide 4 Aehlert
  - Highlighting and Note-Taking Acls Study Guide 4 Aehlert
  - Interactive Elements Acls Study Guide 4 Aehlert
- 8. Staying Engaged with Acls Study Guide 4 Aehlert
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Acls Study Guide 4 Aehlert
- 9. Balancing eBooks and Physical Books Acls Study Guide 4 Aehlert
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Acls Study Guide 4 Aehlert
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Acls Study Guide 4 Aehlert
  - Setting Reading Goals Acls Study Guide 4 Aehlert
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Acls Study Guide 4 Aehlert
  - Fact-Checking eBook Content of Acls Study Guide 4 Aehlert
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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