

# 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, pharmacology.

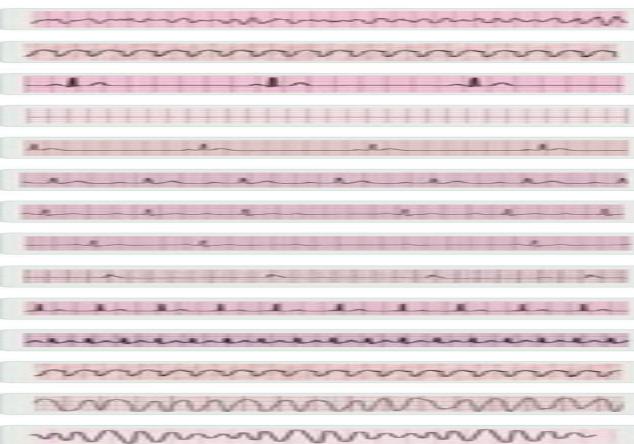
**Sinus Tachycardia** - increased heart rate of 100-150 beats per minute, pharmacological if symptomatic.

**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 - use a monitor to measure blood pressure of 90mmHg
- Differential Diagnosis - use Hx and T's to determine contributing factors to cardiac arrest

## Acute Coronary Syndromes (ACS)

### Unstable Angina

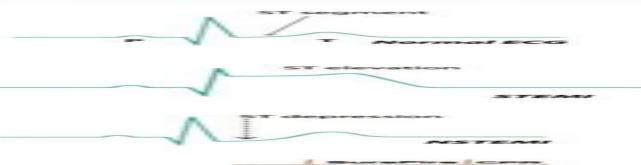
- unexpected chest pain due to poor blood flow
- blood thinners
- aspirin

### 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 CABG surgery

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

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

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# Acls Study Guide

**Lippincott**

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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

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**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**, 1994

**Advanced Cardiovascular Life Support** Julie Johnson, RN, 2016-10-18 This book is an unavoidable study guide to knowing the right interventions in advanced cardiovascular life support. It highlights how to interpret EKG readings and how to intervene in each situation. It also gives a good explanation of ACLS principles. **ACLS Study Guide** Robert A. Twite, 2003-01-01 A comprehensive study guide for the Advanced Cardiac Life Support provider.

**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

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**Study Guide for Advanced Life Support** Ken Grauer,1984 **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

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[Manual of Critical Care Nursing - E-Book](#) Marianne Saunorus Baird, 2015-11-13

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