

# 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** = transition from ventricular depolarization to repolarization. Repolarization starts at the end of the QRS complex.

**T-Wave** = repolarization 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 rate 300-500 bpm.

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

**Sinus Bradycardia** - rate less than 60 bpm, no cause/minute. Prolonged PR interval if not otherwise.

**1st Degree AV Block** - prolonged PR interval. Rhythm normal.

**2nd Degree Block Type I - Wenckebach** - progressive PR interval lengthening. Gradual complete. Rhythm requires treatment.

**2nd Degree Block Type II - Mobitz I** - ventricular逸搏 (fibrillation activity). Usually no pulse.

**3rd Degree Block** - between SA and AV nodes. Complete heart block. Prolonged PR interval.

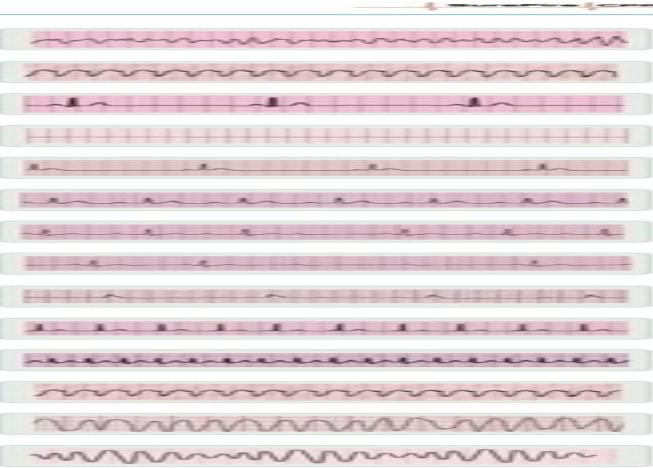
**Sinus Tachycardia** - increased heart rate of 100-150 beats per minute. No cause/minute. Rhythm normal.

**Supraventricular Tachycardia** - increased heart rate of 150-250 beats per minute. No cause/minute. Rhythm normal.

**Monomorphic Ventricular Tachycardia** - no cause/minute. Rhythm normal. Prolonged PR interval.

**Polyomorphic Ventricular Tachycardia** - no cause/minute. Different shapes and rates. Immediate cardioversion and CPR.

**Torsades de Pointes** - different shapes of QRS complexes. Forms a spiral pattern. No cause/minute. Immediate cardioversion - treat with magnesium.



## Electrical Therapy Basics



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

**Synchronized Cardioversion** - Shock synchronized to the heart's point.

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

## Airway Management



**Adjuncts**

- Oropharyngeal (OP) airway - use for unconscious patients with a gag reflex.
- Nasopharyngeal (NP) airway - use for unconscious patients without a gag reflex. NEVER USE WITH A HEAD INJURY.

**Advanced Airways** - recommended method, use with intubation with capnography.

- Endotracheal intubation - use capnography.
- Combitube andotracheal airway (C-MA) - use if unfamiliar with endotracheal tube.

## 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 H&Ts to determine contributing factors to cardiac arrest.

## Acute Coronary Syndromes (ACS)

### Unstable Angina

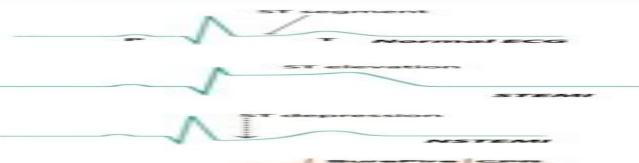
- Unexpected chest pain due to poor blood flow.
- Increased pain.
- Blood thinners - open a narrow or blocked artery.

### 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 depression instead of elevated, no elevation.
- Inflammation.
- Immediate PCI or emergency CABG surgery.
- Coronary artery bypass grafting (CABG) surgery.



## Stroke Assessment and Treatment

Cardiac arrest 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.



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

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# Acls Study Guide

**Laura Willis**

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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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