

# 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. Immediate cardioversion.

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

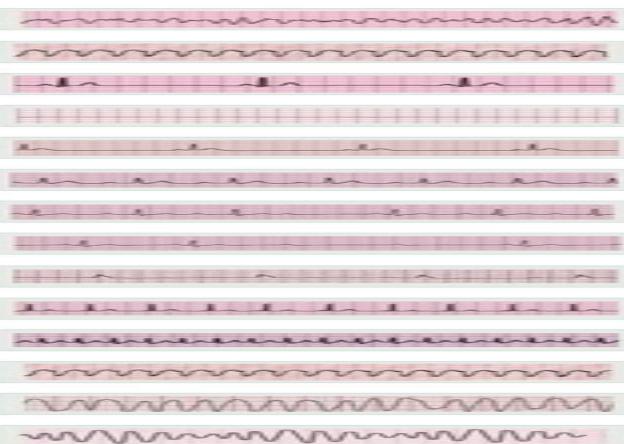
**Sinus Tachycardia** - increased heart rate of 100-150 beats per minute. No cause/minute. No treatment.

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

**Monomorphic Ventricular Tachycardia** - no cause/minute. Immediate cardioversion.

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

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



## Electrical Therapy Basics



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

**Synchronized Cardioversion** - synchronized to the heart's rhythm.

**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 ABCs:

- Airway - maintain ventilation and oxygenation.
- Breathing - keep PETCO<sub>2</sub> between 35-40mmHg.
- Circulation - use 100% oxygen at a pressure of 90mmHg for 100% oxygen delivery.

## Acute Coronary Syndromes (ACS)

### Unstable Angina

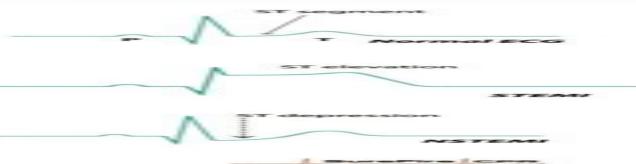
- Unexpected chest pain due to poor blood flow.
- Increased pain.
- Blood thinners - open a narrow or blocked artery.

### 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

Stroke 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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**Barbara J. Aehlert**

## **Acls Study Guide Lifesaver Cpr:**

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### **Cumulative Index**

**of Hospital Literature** Library of the American Hospital Association, Asa S. Bacon Memorial,1987

### **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

### [Zombie Notes ACLS](#)

[Certification Exam Prep](#) Michele G. Kunz,2011-01-01 This laminated study guide is for the American Heart Association Certification class and exam for ACLS Advanced Cardiac Life Support This study guide is available on Amazon com

### **ACLS**

**Provider Manual** Jane John-nwankwo,Msn Jane John-Nwankwo Rn,2016-01-01 What you will learn from this book Team Resuscitation Concepts What Actually Happens in Mega Codes BLS ACLS Surveys Acute Coronary Syndrome Management Stroke Management Recognition of Basic Dysrhythmias Plus 160 Review Questions

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