

# 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 ventricular depolarization to ventricular contraction.

**QRS Complex** = ventricular depolarization; represents contraction of ventricles.

**ST Segment** = period between end of ventricular contraction and beginning of ventricular relaxation.

**T-Wave** = relaxation 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, no cause/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.

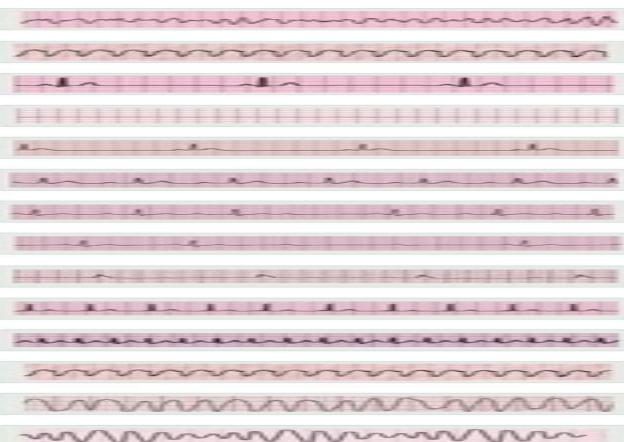
**Sinus Tachycardia** - increased heart rate of 100-150 beats per minute, no cause/minute, pharmacological if symptomatic.

**Supraventricular Tachycardia** - increased heart rate of 100-150 beats per minute, no cause/minute, pharmacological if symptomatic.

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

**Polyomorphic Ventricular Tachycardia** - cardiovert with different drugs and CPR.

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



## Electrical Therapy Basics



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

**Synchronized Cardioversion** - synchronized to the heart's rhythm 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 if intubation is 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 - maintain mean arterial pressure of 90mmHg.
- Differential Diagnosis - use H&Ts to determine contributing factors to cardiac arrest.

## Acute Coronary Syndromes (ACS)

### Unstable Angina

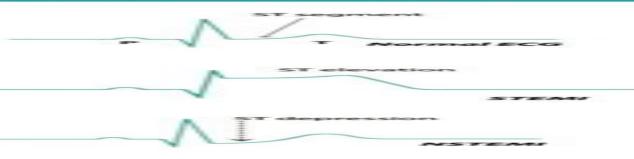
- Unexpected chest pain due to poor blood flow.
- Increased pain.
- Blood thinners.
- Angiogram - open or narrow or blocked artery.

### 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.
- Pharmacotherapy, immediate percutaneous coronary intervention.
- Coronary artery bypass grafting (CABG) surgery.



## Stroke Assessment and Treatment

Cardioembolic 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.



- Persistent asystole 25 minutes or longer.
- 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 2010 Study Guide

**Lingsheng Yao**

## Acls 2010 Study Guide:

**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

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Principles and Practice of Hospital Medicine Sylvia C. McKean, 2012-04-19 The definitive guide to the knowledge and skills necessary to practice Hospital Medicine Presented in full color and enhanced by more than 700 illustrations this authoritative text provides a background in all the important clinical organizational and administrative areas now required for the practice of hospital medicine The goal of the book is provide trainees junior and senior clinicians and other professionals with a comprehensive resource that they can use to improve care processes and performance in the hospitals that serve their communities Each chapter opens with boxed Key Clinical Questions that are addressed in the text and hundreds of tables encapsulate important information Case studies demonstrate how to apply the concepts covered in the text directly to the hospitalized patient Principles and Practice of Hospital Medicine is divided into six parts Systems of Care Introduces key issues in Hospital Medicine patient safety quality improvement leadership and practice management professionalism and medical ethics medical legal issues and risk management teaching and development Medical Consultation and Co Management Reviews core tenets of medical consultation preoperative assessment and management of post operative medical problems Clinical Problem Solving in Hospital Medicine Introduces principles of evidence based medicine quality of evidence interpretation of diagnostic tests systemic reviews and meta analysis and knowledge translations to clinical practice Approach to the Patient at the Bedside Details the diagnosis testing and initial management of common complaints that may either precipitate admission or arise during hospitalization Hospitalist Skills Covers the interpretation of common low tech tests that are routinely accessible on admission how to optimize the use of radiology services and the standardization of the execution of procedures routinely performed by some hospitalists Clinical Conditions Reflects the expanding scope of Hospital Medicine by including sections of Emergency Medicine Critical Care Geriatrics

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