

# 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 cause.

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

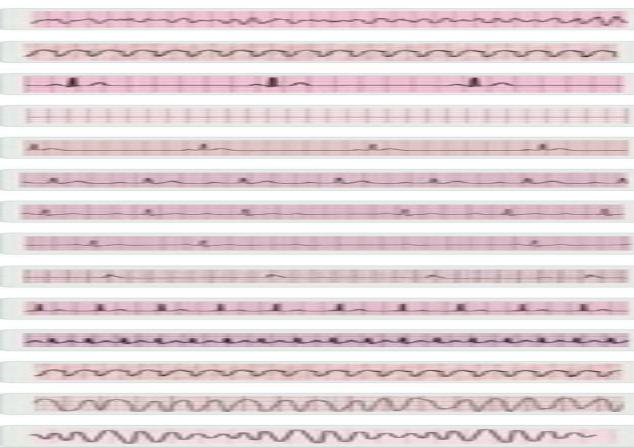
**Sinus Tachycardia** - increased heart rate of 100-150 beats per minute. No cause, usually normal.

**Supraventricular Tachycardia** - increased heart rate of 150-250 beats per minute. No cause, usually normal. Intermediate cardioversion.

**Monomorphic Ventricular Tachycardia** - pharmacology for stable patients. Immediate cardioversion.

**Polyomorphic Ventricular Tachycardia** - cardioversion. Can cause different rhythms and CPR.

**Torsades de Pointes** - different types of QRS complexes. Forms a spiral pattern. Can cause torsades de pointes. 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

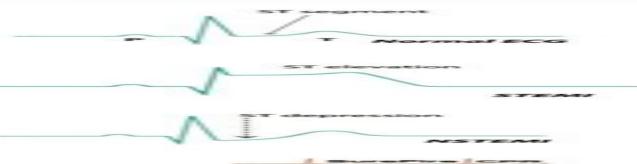
- Unexpected chest pain due to poor blood flow.
- Blood thinners - open a narrow or blocked artery.

### 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.
- Pharmacotherapy, immediate percutaneous coronary intervention.
- 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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# Acls Study Guide 2013

**Julie Johnson, RN**

## **Acls Study Guide 2013:**

AACN Procedure Manual for Progressive and Critical Care - E-Book AACN,2023-07-07 American Journal of Nursing AJN Book of the Year Awards 1st Place in Critical Care Emergency Nursing 2024 Selected for Doody's Core Titles 2024 with Essential Purchase designation in Critical Care Edited by the American Association of Critical Care Nurses and written by more than 100 critical care experts under the direction of Karen L Johnson PhD RN FAAN this definitive reference represents the gold standard of care for procedures performed in progressive and critical care settings It guides you through procedures common to the adult critical care environment including those performed by advanced practice nurses in an illustrated step by step format This edition now in full color features new procedures new and updated illustrations and updated content throughout reflecting the latest evidence based guidelines and national and international protocols Quick reference tabs make it easier than ever to locate content quickly This new edition integrates key AACN initiatives such as Practice Alerts and coordinates closely with the AACN Core Curriculum for Progressive and Critical Care Nursing 8th Edition Chapter specific quick links employ QR codes for instant access to high quality online references Edited by the American Association of Critical Care Nurses written by more than 100 expert critical care clinicians under the direction of Karen L Johnson PhD RN FAAN and extensively reviewed by more than 100 additional critical care experts to ensure the accuracy and currency Comprehensive coverage includes all procedures commonly performed in progressive and critical care settings including those performed by advanced practice nurses indicated by an AP icon Straightforward step by step organization uses consistent headings to make following a procedure and finding the various supporting elements quick and easy with bulleted lists tables and detailed illustrations throughout to ensure that content is easy to reference and follow Rationales for all interventions in patient and family education assessment patient preparation procedure and monitoring help students understand the rationale for every step and a level of evidence is provided when a research base exists to substantiate an intervention giving insight into the strength of recommendations NEW Additional procedures new and updated illustrations and updated content throughout reflect the latest evidence based guidelines and national and international protocols NEW Full color design with color reference tabs enhances navigation plus full color illustrations reinforce understanding UPDATED Key AACN initiatives such as Practice Alerts are integrated throughout and content coordinates with the AACN Core Curriculum for Progressive and Critical Care Nursing 8th Edition NEW Chapter specific quick links via QR codes provide quick access to online references which have been updated and limited to the highest value sources *Mosby's Dental Dictionary E-Book* Elsevier Inc,2019-04-05 Selected for Doody's Core Titles 2024 with Essential Purchase designation in Dictionaries Terminology An essential dental resource that goes beyond education Mosby's Dental Dictionary 4th Edition is the must have pocket sized reference covering all areas of dentistry that is designed for both students and practitioners This new edition defines over 10 000 terms on dynamic areas of dentistry including materials imaging surgery orthodontics pain

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*Scholarships, fellowships and loans :|ba guide to education-related financial aid programs for students and professionals*, 2006

*Differenzialdiagnose Innerer Krankheiten* Edouard Battegay, 2017-04-05 Die Differenzialdiagnose ist Kern der rzlichen Kunst und vielfach kein linearer Prozess Eine zielgerichtete differenzialdiagnostische Abkl rung setzt Wissen und Erfahrung voraus und stellt so manchen Arzt vor Herausforderungen Dieses Werk f hrt Sie effektiv und evidenzbasiert vom Symptom zur Diagnose Erfahren Sie wie Sie Leitsymptome und Symptomkomplexe erkennen und abkl ren Patientenanamnese im diagnostischen Prozess bewusst f hren Erkenntnisse gewichteten Verdachtsdiagnosen best tigen wichtige Triage Entscheide treffen wachsam bleiben und sich in komplexen Situationen schnell orientieren F cher bergreifende und vernetzte Darstellungen helfen Ihnen dabei Zusammenh nge systematisch zu verstehen N tzliches Bildmaterial bersichtliche Tabellen und klare Stufenkonzepte sind einpr gsam gestaltet Profitieren Sie von mehr als 60 Jahren Erfahrung bei der Differenzialdiagnose innerer Erkrankungen und vertrauen Sie bei Ihrer Entscheidungsfindung auf DAS bew hrte und moderne Referenzwerk in welchem die Experten ihr Denken und Ihre Erfahrungen auf den Punkt bringen Jederzeit zugreifen Der Inhalt des Buches steht Ihnen ohne weitere Kosten digital in der Wissensplattform eRef zur Verf gung Zugangscode im Buch Mit der kostenlosen eRef App haben Sie zahlreiche Inhalte auch offline immer griffbereit

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