

The Ultimate ACLS Study Guide

ADVANCED LIFE SUPPORT IN THE PREHOSPITAL SETTING
 PROVIDING QUALITY CARE TO YOUR PATIENTS AND YOURSELF



EKG Anatomy



P Wave - atrial depolarization activity in the lower right atrium
QRS Complex - ventricular depolarization activity in the lower left ventricle
T Wave - ventricular repolarization activity in the lower left ventricle
ST Segment - the segment between the QRS complex and the T wave, representing the time between ventricular depolarization and repolarization.

ECG Rhythms

- Ventricular Fibrillation** - Irregular, chaotic, and disorganized electrical activity.
- Ventricular Tachycardia** - Rapid, regular, and organized electrical activity, often with a wide QRS complex.
- Supraventricular Tachycardia** - Rapid, regular, and organized electrical activity, often with a narrow QRS complex.
- Abrystole** - No electrical activity on EKG, if leads are all disconnected, begin CPR immediately.
- Sinus Bradycardia** - Heart rate less than 60 beats/minute.
- 1st Degree AV Block** - Prolonged PR interval, rarely associated with any clinical significance.
- 2nd Degree Block Type I - Wenckebach** - Progressive PR interval prolongation until a QRS complex is dropped.
- 2nd Degree Block Type II - Mobitz** - Fixed PR interval with occasional dropped QRS complexes.
- 3rd Degree Block** - Complete dissociation between P waves and QRS complexes.
- Sinus Tachycardia** - Heart rate greater than 100 beats/minute.
- Supraventricular Tachycardia** - Rapid, regular, and organized electrical activity, often with a narrow QRS complex.
- Polymorphic Ventricular Tachycardia** - Rapid, irregular, and organized electrical activity, often with a wide QRS complex.
- Polymorphic Ventricular Tachycardia** - Rapid, irregular, and organized electrical activity, often with a wide QRS complex.
- Torsades de Pointes** - A form of polymorphic ventricular tachycardia, often associated with a prolonged QT interval.



Electrical Therapy Basics



- Defibrillation** - Use of external defibrillator (AED) to restore normal cardiac rhythm.
- Synchronized Cardioversion** - Shock synchronized to specific ECG wave.
- Transcutaneous Pacing** - Treats abnormally slow heart rate.

Airway Management



- Adjuvants** -
 - Endotracheal CO2 Sphygmomanometer - Use for confirming endotracheal tube placement.
 - Endotracheal CO2 Sphygmomanometer - Use for confirming endotracheal tube placement.
 - Never use with a head injury.
- Advanced Airway** - Recommended methods:
 - Endotracheal intubation (ETT)
 - Supraglottic airway device (SAD)
 - Use if ETT is not possible.

Post-Resuscitation Care



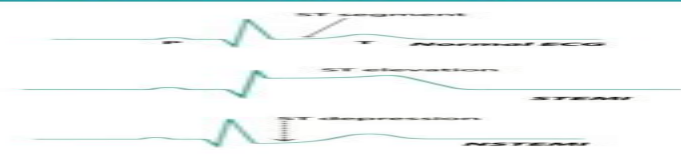
- Follow the ABCs:**
 - Airway - Maintain airway and oxygenation.
 - Breathing - Maintain oxygenation between 92-96%.
 - Circulation - Maintain perfusion.
 - Discharge - Use HR and T₁ to determine contributing factors.

Acute Coronary Syndromes (ACS)

- Unstable Angina** -
 - Intermittent chest pain, often at rest.
 - Angiographically to open a narrow or blocked artery.

- ST Segment Elevation MI (STEMI)** -
 - ST segment elevation on ECG.
 - Immediate reperfusion therapy.
 - Primary percutaneous coronary intervention (PPCI) or coronary artery bypass grafting (CABG) surgery.

- Non-ST Segment Elevation MI (NSTEMI)** -
 - ST segment depression on ECG.
 - Immediate reperfusion therapy.
 - Primary percutaneous coronary intervention (PPCI) or coronary artery bypass grafting (CABG) surgery.



Stroke Assessment and Treatment

Consider stroke as a medical emergency. The onset of stroke symptoms is critical. If a stroke is suspected, call 911 immediately.

Cincinnati Prehospital Stroke Scale:

1. Face
2. Arm
3. Speech



Code Termination

Consult with medical control before code termination.

- 1. Exhaustive resuscitation efforts are exhausted.
- 2. No signs of life or response to resuscitation efforts.



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M Tight



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13 Acls Study Guide 201: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have charmed audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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