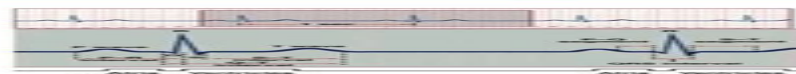


The Ultimate ACLS Study Guide

ADVANCED CARDIAC LIFE SUPPORT (ACLS) COURSE
EMERGENCY RESPONSE TO LIFE-THREATENING CARDIOVASCULAR CONDITIONS



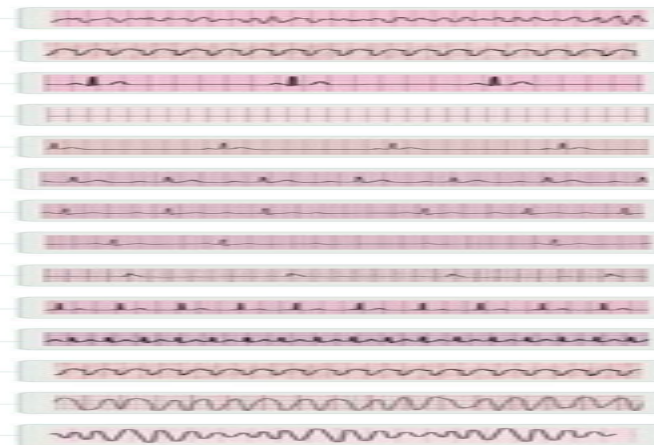
EKG Anatomy



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 interval between the end of the QRS complex and the beginning of the T wave. It represents the time when the ventricles are fully depolarized and the electrical current is moving through the heart.

ECG Rhythms

- Ventricular Fibrillation** - Irregular, chaotic, and disorganized electrical activity. Immediate defibrillation.
- Ventricular Tachycardia** - Rapid, regular, and organized electrical activity. Pacing 100-120 bpm.
- Bradycardia** - Slow, regular, and organized electrical activity. Pacing 60-100 bpm.
- Asystole** - No electrical activity. CPR and epinephrine.
- Sinus Bradycardia** - Slow, regular, and organized electrical activity. Pacing 60-100 bpm.
- 1st Degree AV Block** - Prolonged PR interval. Pacing 60-100 bpm.
- 2nd Degree Block Type I - Wenckebach** - Prolonged PR interval. Pacing 60-100 bpm.
- 2nd Degree Block Type II - Mobitz** - Prolonged PR interval. Pacing 60-100 bpm.
- 3rd Degree Block** - Prolonged PR interval. Pacing 60-100 bpm.
- Sinus Tachycardia** - Rapid, regular, and organized electrical activity. Pacing 100-120 bpm.
- Supraventricular Tachycardia** - Rapid, regular, and organized electrical activity. Pacing 100-120 bpm.
- Polymorphic Ventricular Tachycardia** - Rapid, irregular, and organized electrical activity. Pacing 100-120 bpm.
- Torsades de Pointes** - Rapid, irregular, and organized electrical activity. Pacing 100-120 bpm.

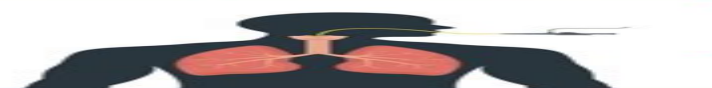


Electrical Therapy Basics



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 -
 - Oropharyngeal Airway (OPA) - Use for unconscious patients.
 - Nasopharyngeal Airway (NPA) - Use for conscious patients.
 - NEVER USE WITH A HEAD INJURY.
Advanced Airway -
 - Endotracheal Intubation - Recommended method.
 - Esophageal Intubation - NEVER USE! (NPA) - Use if intubation fails.

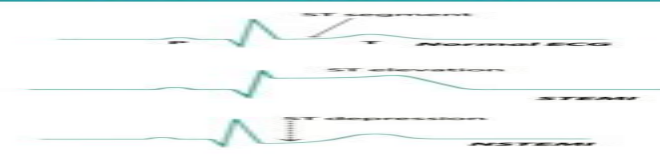
Post-Resuscitation Care



Follow the ABCs:
 - **A**irway - Maintain airway and oxygenation.
 - **B**reathing - Monitor SpO2 and tidal volume.
 - **C**irculation - Monitor heart rate and blood pressure.
 - **D**iagnostics - Use ECG and T1 to determine contributing factors.

Acute Coronary Syndromes (ACS)

- Unstable Angina** - Chest pain due to poor blood flow.
 - Unstable angina.
 - Angioplasty to open a narrow or blocked artery.
- ST Segment Elevation MI (STEMI)** -
 - Chest pain.
 - ST segment elevation on ECG.
 - Immediate reperfusion therapy (PCI or CABG).
 - Aspirin, P2Y12 inhibitors, and statins.
- Non-ST Segment Elevation MI (NSTEMI)** -
 - Chest pain.
 - ST segment depression on ECG.
 - Aspirin, P2Y12 inhibitors, and statins.



Stroke Assessment and Treatment

Cincinnati Prehospital Stroke Scale:
 1. Face
 2. Arm
 3. Speech
 4. Time to call 911

Code Termination

Consult with medical control before code termination.
 - Prolonged resuscitation efforts.
 - Exhaustion of medical personnel.

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15 Acls Study Guide

RD Boyd



15 Acls Study Guide:

15 Acls Study Guide: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant 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 succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating 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. 15 Acls Study Guide : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling 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 engaging 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 masterful and thrilling novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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