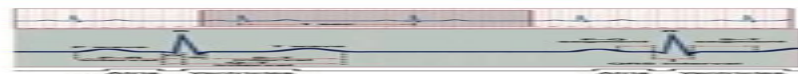


# The Ultimate ACLS Study Guide

ADVANCED LIFE SUPPORT IN THE PREHOSPITAL SETTING  
ADVANCED LIFE SUPPORT IN THE PREHOSPITAL SETTING



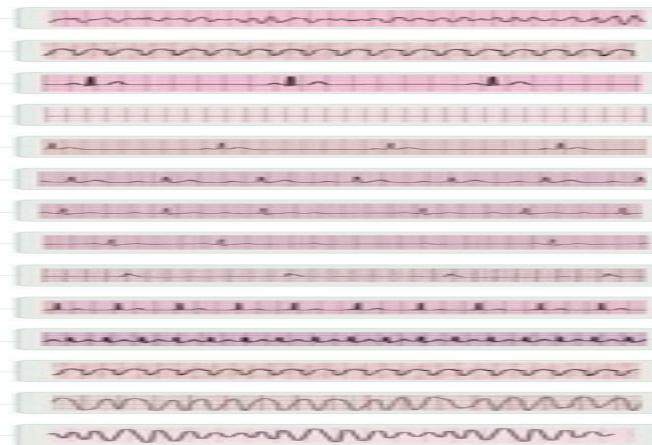
## EKG Anatomy



**P Wave** - represents electrical activity in the SA Node. Prolonged P wave indicates a delay in conduction.  
**PR Interval** - represents the time between the P wave and the QRS complex. Prolonged PR interval indicates a delay in conduction.  
**QRS Complex** - represents the electrical activity of the ventricles. A narrow QRS complex indicates a normal conduction system, while a wide QRS complex indicates a bundle branch block or ventricular tachycardia.  
**T Wave** - represents the repolarization of the ventricles. A tall, peaked T wave indicates hyperkalemia, while a flattened T wave indicates hypokalemia.

## ECG Rhythms

<b>Ventricular Fibrillation</b> Irregular, chaotic, no discernible P waves.	
<b>Ventricular Tachycardia</b> Rapid, regular, wide QRS complex. P waves are absent.	
<b>Pulsless Electrical Activity</b> Rapid, regular, narrow QRS complex. No pulse.	
<b>Asystole</b> No electrical activity on EKG. If leads are all disconnected, begin CPR immediately.	
<b>Sinus Bradycardia</b> Normal rate is 60-100 beats/minute. If rate is less than 60, consider treatment.	
<b>1st Degree AV Block</b> Prolonged PR interval. Rarely treated.	
<b>2nd Degree Block Type I - Wenckebach</b> PR interval progressively lengthens until a QRS complex is dropped.	
<b>2nd Degree Block Type II - Mobitz</b> P waves are present, but some QRS complexes are dropped.	
<b>3rd Degree Block</b> P waves and QRS complexes are dissociated. P waves are present, but no QRS complexes are seen.	
<b>Sinus Tachycardia</b> Normal rate is 60-100 beats/minute. If rate is greater than 100, consider treatment.	
<b>Supraventricular Tachycardia</b> Rapid, regular, narrow QRS complex. P waves are present.	
<b>Polymorphic Ventricular Tachycardia</b> Rapid, irregular, wide QRS complex. P waves are absent.	
<b>Torsades de Pointes</b> Rapid, irregular, wide QRS complex. P waves are absent. Associated with long QT interval.	



## Electrical Therapy Basics



**Defibrillation** - use external defibrillator (AED).  
**Synchronized Cardioversion** - shock synchronized to specific ECG.  
**Transcutaneous Pacing** - treats abnormally slow heart rate.

## Airway Management



**Adjuvants**  
 - Oropharyngeal airway - use for unconscious patients.  
 - Nasopharyngeal airway - use for unconscious patients with a head injury.  
**Endotracheal Intubation** - recommended method.  
 - Endotracheal tube - use if patient is unconscious.

## Post-Resuscitation Care



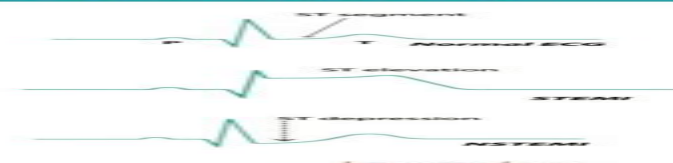
**Follow the ABCs:**  
 - Airway - ensure patency and oxygenation.  
 - Breathing - provide oxygen and ventilation.  
 - Circulation - monitor vital signs and provide fluids.  
 - Disability - use H&E and T's to determine contributing factors.

## Acute Coronary Syndromes (ACS)

**Unstable Angina**  
 - Chest pain at rest.  
 - Chest pain with exertion.  
 - Angioplasty to open a narrow or blocked artery.

**ST Segment Elevation MI (STEMI)**  
 - Chest pain at rest.  
 - ST segment elevation on ECG.  
 - Primary percutaneous coronary intervention (PPCI) or coronary artery bypass grafting (CABG) surgery.

**Non-ST Segment Elevation MI (NSTEMI)**  
 - Chest pain at rest.  
 - ST segment depression on ECG.  
 - Primary percutaneous coronary intervention (PPCI) or coronary artery bypass grafting (CABG) surgery.



## Stroke Assessment and Treatment

Consider stroke if patient has sudden onset of focal neurological deficits. If a stroke is suspected, call for medical assistance.

## Cincinnati Prehospital Stroke Scale:

1. Arm drift
2. Face smile
3. Language



## Code Termination

Consult with medical control before code termination.

- Discontinue resuscitation efforts if no signs of life.
- Discontinue resuscitation efforts if no signs of life.



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