

The Ultimate ACLS Study Guide

AN EASY-TO-USE GUIDE TO THE 2020 AHA/ACC/ETC GUIDELINES FOR THE MANAGEMENT OF ACUTE CORONARY SYNDROMES



EKG Anatomy



P Wave - atrial depolarization activity in the lower right atrium. Normal P wave is upright in leads I, II, aVF, V4, V5, and V6. In leads aVR, V1, and V2, the P wave is inverted. A prolonged P wave may indicate atrial enlargement.

QRS Complex - ventricular depolarization activity in the lower left ventricle. Normal QRS complex is narrow and has a duration of less than 0.1 seconds. A wide QRS complex may indicate bundle branch block or ventricular tachycardia.

T Wave - ventricular repolarization activity in the lower left ventricle. Normal T wave is upright in leads I, II, aVF, V4, V5, and V6. In leads aVR, V1, and V2, the T wave is inverted. A prolonged T wave may indicate myocardial ischemia or electrolyte imbalance.

ECG Rhythms

- Ventricular Fibrillation** - Irregular, chaotic, and disorganized electrical activity. Immediate defibrillation.
- Ventricular Tachycardia** - Rapid, regular, and narrow QRS complex. Immediate defibrillation if not responsive to treatment.
- Pathologic Electrical Activity** - Abnormal electrical activity. Immediate defibrillation.
- Abrupt** - Sudden change in EKG. If leads are all depressed, begin CPR immediately.
- Sinus Bradycardia** - Heart rate less than 60 beats/minute. Monitor and treat if symptomatic.
- 1st Degree AV Block** - Prolonged PR interval. Rarely treated.
- 2nd Degree Block Type I - Wenckebach** - Progressive PR prolongation followed by a dropped QRS. Monitor and treat if symptomatic.
- 2nd Degree Block Type II - Mobitz** - Fixed PR interval with dropped QRS. Monitor and treat if symptomatic.
- 3rd Degree Block** - Complete dissociation of P waves and QRS. Monitor and treat if symptomatic.
- Sinus Tachycardia** - Heart rate greater than 100 beats/minute. Monitor and treat if symptomatic.
- Supraventricular Tachycardia** - Rapid, regular, and narrow QRS complex. Monitor and treat if symptomatic.
- Polymorphic Ventricular Tachycardia** - Rapid, irregular, and wide QRS complex. Immediate defibrillation.
- Torsades de Pointes** - Rapid, irregular, and wide QRS complex. Immediate defibrillation.
- Asystole** - No electrical activity. Immediate CPR.



Electrical Therapy Basics



- Defibrillation** - Used to restore normal heart rhythm. Immediate defibrillation (AED).
- Synchronized Cardioversion** - Used to restore normal heart rhythm. Synchronized to R wave.
- Transcutaneous Pacing** - Used to restore normal heart rhythm. Pacing externally.

Airway Management



- Adjuvants** - Used to assist with airway management. Examples include oral and nasal airways.
- Endotracheal Intubation** - Insertion of a tube into the trachea. Use for patients with severe respiratory distress.
- Supraglottic Airway** - Insertion of a device into the mouth. Use for patients with severe respiratory distress.
- Respiratory Support** - Use of a ventilator to provide respiratory support. Use for patients with severe respiratory distress.

Post-Resuscitation Care



- Follow the ABCs** - Airway, Breathing, Circulation. Immediate attention to these areas is critical for patient survival.
- Temperature** - Maintain body temperature between 36-38°C. Hypothermia can lead to coagulopathy and acidosis.
- Fluids** - Use fluids to maintain adequate perfusion. Monitor for fluid overload.
- Medications** - Use medications to manage symptoms and complications. Examples include analgesics, sedatives, and antiarrhythmics.

Acute Coronary Syndromes (ACS)

- Unstable Angina** - Chest pain at rest or with minimal exertion. No ST-segment changes.
- ST-Segment Elevation MI (STEMI)** - Chest pain with ST-segment elevation. Immediate reperfusion therapy is required.
- Non-ST-Segment Elevation MI (NSTEMI)** - Chest pain with ST-segment depression or T-wave inversion. Immediate reperfusion therapy is required.



Stroke Assessment and Treatment

- Stroke Assessment** - Use the Cincinnati Prehospital Stroke Scale to assess for stroke. Examples include facial droop, arm drift, and speech abnormalities.
- Stroke Treatment** - Use tPA to treat ischemic stroke. Monitor for bleeding and other complications.

Code Termination

- Consult with medical control before code termination.** - Always consult with medical control before terminating resuscitation efforts.
- Document** - Document all resuscitation efforts and outcomes. Examples include vital signs, medications, and patient response.

This document is for informational purposes only and should not be used as a substitute for professional medical advice. Always consult with a qualified healthcare provider for medical advice.

Fast Response Acls Study Guide

Christine Bresnahan, Richard Blum

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the authors' names.

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