

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 block. Rhythm requires treatment.

2nd Degree Block Type II - Mobitz I - ventricular逸搏 (fibrillation activity). Usually no cause/minute.

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

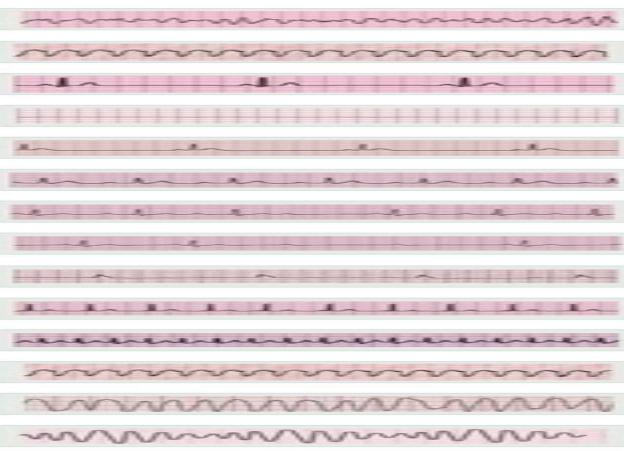
Sinus Tachycardia - increased heart rate of 100-150 beats per minute. No cause/minute.

Supraventricular Tachycardia - increased heart rate of 150-250 beats per minute. No cause/minute. Immediate cardioversion.

Monomorphic Ventricular Tachycardia - no cause/minute. Immediate cardioversion.

Polyomorphic Ventricular Tachycardia - no cause/minute. Different shapes and rates.

Torsades de Pointes - different shapes of QRS complexes. Forms a spiral pattern. No cause/minute - 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 if intubation is unfamiliar with endotracheal tube.

Post-Resuscitation Care



Follow the ABCDs:

- Airway - maintain ventilation and oxygenation.
- Breathing - keep PETCO₂ between 35-40mmHg.
- Circulation - use a monitor to measure blood pressure of 90mmHg.
- Differential Diagnosis - use Hx and T's to determine contributing factors to cardiac arrest.

Acute Coronary Syndromes (ACS)

Unstable Angina

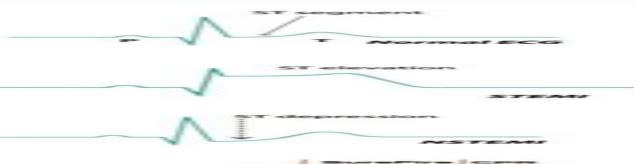
- Unexpected chest pain due to poor blood flow.
- Increased pain.
- Blood thinners - open a narrow or blocked artery.

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 CABG surgery.

Non-ST-segment Elevation MI (NSTEMI)

- Partial blockage of a coronary artery.
- ST-segment depression instead of elevated.
- Inflammation.
- Immediate PCI or CABG surgery.
- Coronary artery bypass grafting (CABG) surgery.



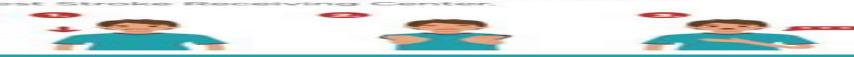
Stroke Assessment and Treatment

Cardiac arrest 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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