

The Ultimate Study Guide

EMERGENCY MEDICAL SERVICES (EMS) AND PUBLIC SAFETY TRAINING



EKG Anatomy



WAVE: Represents the electrical activity of the SA node. It is the first wave to appear on the EKG tracing. It is a small, upright wave that is most prominent in leads I, II, and aVL.

QRS COMPLEX: Represents the electrical activity of the ventricles. It is the largest wave on the EKG tracing. It consists of three waves: the Q wave (a small, deep, narrow wave), the R wave (a tall, narrow wave), and the S wave (a small, deep, narrow wave).

T WAVE: Represents the electrical activity of the ventricles during repolarization. It is a wave that follows the QRS complex. It is a tall, narrow wave that is most prominent in leads V4, V5, and V6.

EKG Rhythms

- Normal Sinus Rhythm:** Regular rhythm with a rate of 60-100 bpm. P waves are present and upright in leads I, II, and aVL.
- Sinus Bradycardia:** Regular rhythm with a rate less than 60 bpm.
- Sinus Tachycardia:** Regular rhythm with a rate greater than 100 bpm.
- Sinus Arrest:** A pause in the normal sinus rhythm.
- Sinus Exit Block:** A pause in the normal sinus rhythm.
- First Degree AV Block:** A delay in the conduction of the electrical impulse from the SA node to the AV node.
- Second Degree AV Block Type I (Wenckebach):** A delay in the conduction of the electrical impulse from the SA node to the AV node, with a progressive lengthening of the PR interval.
- Second Degree AV Block Type II (Mobitz II):** A delay in the conduction of the electrical impulse from the SA node to the AV node, with a dropped QRS complex.
- Third Degree AV Block:** A complete dissociation between the P waves and the QRS complexes.
- Bundle Branch Block:** A delay in the conduction of the electrical impulse through the bundle branches.
- Left Bundle Branch Block (LBBB):** A delay in the conduction of the electrical impulse through the left bundle branch.
- Right Bundle Branch Block (RBBB):** A delay in the conduction of the electrical impulse through the right bundle branch.
- Pre-excitation Syndromes (WPW):** A delay in the conduction of the electrical impulse through the AV node, with a short PR interval.
- Supraventricular Tachycardia (SVT):** A rapid, regular rhythm that originates in the AV node or the atria.
- Ventricular Tachycardia (VT):** A rapid, regular rhythm that originates in the ventricles.
- Ventricular Fibrillation (VF):** A chaotic, irregular rhythm that originates in the ventricles.
- Asystole:** A flat line on the EKG tracing, indicating a complete absence of electrical activity.



Electrical Therapy Basics



- Defibrillation:** The application of electrical energy to the heart to terminate a life-threatening arrhythmia.
- Synchronized Cardioversion:** The application of electrical energy to the heart to terminate a life-threatening arrhythmia.
- Transcutaneous Pacing:** The application of electrical energy to the heart to maintain a regular rhythm.

Airway Management



- Oral Airway:** A device that is inserted into the mouth to maintain the airway.
- Nasal Airway:** A device that is inserted into the nose to maintain the airway.
- Endotracheal Intubation:** A procedure in which a tube is inserted into the trachea to maintain the airway.
- Supraglottic Airway:** A device that is inserted into the mouth and sits above the vocal cords to maintain the airway.

Post-Resuscitation Care



- Follow the ABCs:** Airway, Breathing, Circulation.
- Monitor:** Monitor vital signs and oxygen saturation.
- Temperature:** Maintain a normal body temperature.
- Fluids:** Administer fluids as needed.
- Medications:** Administer medications as needed.
- Transport:** Transport the patient to the hospital as quickly as possible.

Acute Coronary Syndromes (ACS)

- Unstable Angina:** Chest pain that is not relieved by rest or nitroglycerin.
- ST Segment Elevation MI (STEMI):** A heart attack that is caused by a complete blockage of a coronary artery.
- Non-ST Segment Elevation MI (NSTEMI):** A heart attack that is caused by a partial blockage of a coronary artery.
- Myocardial Infarction (MI):** A heart attack that is caused by a complete blockage of a coronary artery.
- Coronary Artery Disease (CAD):** A disease that is caused by a narrowing of the coronary arteries.
- Coronary Artery Bypass Grafting (CABG) Surgery:** A surgical procedure that is used to treat CAD.



Stroke Assessment and Treatment

- Recognize and Treat the Signs and Symptoms of a Stroke:** FAST (Face, Arm, Speech, Time).
- Administer Aspirin:** Administer aspirin as soon as possible.
- Transport:** Transport the patient to the hospital as quickly as possible.
- Stroke Assessment and Treatment:** Administer aspirin, transport to the hospital, and provide supportive care.

Code Termination

- Consult with Medical Director Before Code Termination:** Consult with the medical director before terminating a code.
- Recognize Signs of Death:** Recognize signs of death, such as asystole or irreversible fixed dilated pupils.
- Provide Supportive Care:** Provide supportive care to the patient and family.

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Acls Study Guide

M Walker



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