

AcLS Written Test Version B Answers

AcLS Written Test Version B Answers ACLS Written Test Version B Answers and Explanations The Advanced Cardiac Life Support ACLS certification is a vital credential for healthcare professionals who treat patients with cardiac emergencies The ACLS written test is a critical component of the certification process assessing your understanding of core principles algorithms and interventions for managing cardiac arrest and other lifethreatening cardiac conditions This article will provide answers and explanations for the ACLS Written Test Version B covering key concepts and highlighting common pitfalls Disclaimer The following information is for educational purposes only and should not be considered a substitute for professional medical advice Please refer to the latest ACLS guidelines from the American Heart Association AHA for definitive information and training

Section 1 Basic Life Support and Airway Management

Question 1 You are called to the scene of an unconscious adult What is the first step you should take **Answer** Assess responsiveness This is the cornerstone of emergency care Check for signs of awareness eg opening eyes moving limbs responding to verbal stimuli before proceeding to other interventions **Explanation** Determining the patients responsiveness establishes the need for immediate care and helps guide subsequent actions

Question 2 During tworescuer CPR what is the proper compressiontoventilation ratio for adults **Answer** 30:2 This ratio ensures adequate chest compressions and oxygen delivery **Explanation** 30 compressions deliver sufficient blood flow to the brain and heart while 2 ventilations provide oxygen

Question 3 What is the most appropriate airway management technique for a patient with a suspected cervical spine injury **Answer** Jaw thrust maneuver This technique opens the airway without moving the neck 2 minimizing the risk of further injury **Explanation** The jaw thrust maneuver lifts the jaw forward creating an airway without extending the neck

Section 2 ACLS Algorithms and Interventions

Question 4 You are treating a patient in cardiac arrest You have confirmed pulseless electrical activity PEA on the monitor Which of the following is NOT a key component of the initial management strategy for PEA **Answer** Defibrillation PEA is not a shockable rhythm Defibrillation is only indicated for ventricular fibrillation VF and pulseless ventricular tachycardia VT **Explanation** The initial focus for PEA is to identify and address the underlying cause Hs and Ts hypovolemia hypoxia hydrogen ions hypoglycemia hyperkalemia hypothermia tension pneumothorax tamponade toxins and provide supportive measures like CPR and medications

Question 5 During the management of a patient with stable monomorphic ventricular tachycardia which of the following medications is the firstline treatment **Answer** Amiodarone Amiodarone is an antiarrhythmic medication used to suppress ventricular tachycardia **Explanation** While other medications like lidocaine or procainamide may be used amiodarone is the preferred firstline agent for stable monomorphic VT

Question 6 You are caring for a patient who has just received a shock for ventricular fibrillation What is the next step in the management **Answer** Immediately resume CPR After defibrillation continued CPR is crucial to maintain blood flow until the heart regains a rhythm **Explanation** Resuming CPR after defibrillation ensures continued blood flow to vital organs potentially allowing for spontaneous return of circulation ROSC or providing time for medication administration

Section 3 Pharmacology and Medication Administration

Question 7 What is the correct dose of epinephrine for an adult patient in cardiac arrest **Answer** 1 mg IV or IO repeated every 3-5 minutes as needed **Explanation** Epinephrine is a potent vasoconstrictor

and bronchodilator used to improve 3 circulation and increase heart contractility during cardiac arrest Question 8 You are administering medication to a patient through an endotracheal tube What is the general rule of thumb for the drug dose compared to the IV dose Answer 225 times the IV dose Explanation The endotracheal route bypasses the pulmonary circulation resulting in a lower concentration of medication reaching the bloodstream Question 9 You are preparing to administer sodium bicarbonate to a patient in cardiac arrest What is the primary indication for this medication Answer Metabolic acidosis Sodium bicarbonate is used to correct severe metabolic acidosis often seen in patients with prolonged cardiac arrest Explanation While often considered the benefits of sodium bicarbonate are controversial and its use should be carefully evaluated based on individual patient factors and current ACLS guidelines Section 4 Advanced Airway Management Question 10 You are performing endotracheal intubation on a patient What is the most reliable method to confirm proper tracheal placement Answer Endtidal CO2 monitoring This device detects carbon dioxide levels in exhaled air providing a reliable indicator of successful tracheal intubation Explanation Endtidal CO2 monitoring is considered the gold standard for confirming proper tracheal placement providing immediate feedback on airway placement Question 11 You are managing a patient who has developed a difficult airway Which of the following techniques is NOT recommended for managing a difficult airway Answer Blind nasal intubation This technique carries a high risk of complications and is not recommended for patients with difficult airways Explanation Blind nasal intubation is associated with a significant risk of trauma and may not be successful potentially leading to delays in airway management Question 12 You are preparing to perform a surgical airway Which of the following anatomical landmarks is crucial for identifying the correct location for the cricothyroidotomy Answer The cricothyroid membrane This thin membrane between the cricoid cartilage and the thyroid cartilage is the target site for a surgical airway 4 Explanation The cricothyroid membrane is the optimal site for a surgical airway as it is easily palpable and provides direct access to the trachea Conclusion The ACLS written test is an essential step in the certification process requiring a thorough understanding of cardiac emergencies and their management This article provided answers and explanations for the ACLS Written Test Version B highlighting key concepts and common pitfalls However it is crucial to consult the latest ACLS guidelines and participate in formal training to ensure competency in managing cardiac emergencies Continuously reviewing and updating knowledge through ACLS courses and real-life experience is vital to providing optimal care to patients in critical situations

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