

# Valencia College Paramedic Program Practice Test (Sample)

## Study Guide



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**SAMPLE**

## **Questions**

SAMPLE

- 1. Which of the following conditions is NOT a known risk factor for pulmonary emboli?**
  - A. Obesity**
  - B. Regular physical activity**
  - C. Prolonged bed rest**
  - D. Pregnancy**
  
- 2. What characterizes the 'flight of ideas' symptom?**
  - A. Disconnected thoughts**
  - B. Continuous, logical reasoning**
  - C. Slow speech patterns**
  - D. Decreased motivation**
  
- 3. What therapeutic approach is often utilized for anxiety disorders?**
  - A. Long-term antibiotic therapy**
  - B. Medication combined with cognitive behavioral therapy**
  - C. Intensive exercise regimen**
  - D. Immediate hospitalization**
  
- 4. What does incomplete documentation of vital signs on a PCR imply?**
  - A. If you don't write it, it didn't happen**
  - B. Vital signs are unimportant**
  - C. Clinical assessments can be ignored**
  - D. All patients respond similarly**
  
- 5. What is the main charge of a cell at resting potential in terms of millivolts?**
  - A. -70mV**
  - B. -90mV**
  - C. 0mV**
  - D. +30mV**

**6. What is the maximum dose of Benadryl for managing an allergic reaction?**

- A. 25 mg
- B. 50 mg
- C. 100 mg
- D. 1 mg/kg

**7. In patients with Wolff-Parkinson-White (WPW) syndrome, what medication is contraindicated?**

- A. Adenosine
- B. Lidocaine
- C. Amiodarone
- D. Epinephrine

**8. What is generally the first step in managing a patient with a 3rd Degree AV Block?**

- A. Medications only
- B. Pacing
- C. Defibrillation
- D. Cardiac catheterization

**9. What is the recommended course of action for managing unstable ventricular tachycardia (Vtach)?**

- A. Immediate defibrillation
- B. Synchronized cardioversion
- C. Intravenous potassium administration
- D. Intravenous beta blockers

**10. What does a 3rd Degree AV Block indicate about the relationship between P waves and QRS complexes?**

- A. P waves are consistently followed by QRS complexes
- B. There is no consistent relationship
- C. QRS complexes always precede P waves
- D. P waves and QRS complexes are fused

## **Answers**

SAMPLE

- 1. B**
- 2. A**
- 3. B**
- 4. A**
- 5. B**
- 6. B**
- 7. A**
- 8. B**
- 9. B**
- 10. B**

SAMPLE

## **Explanations**

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**1. Which of the following conditions is NOT a known risk factor for pulmonary emboli?**

- A. Obesity**
- B. Regular physical activity**
- C. Prolonged bed rest**
- D. Pregnancy**

The condition that is identified as not being a known risk factor for pulmonary emboli is regular physical activity. Regular physical activity actually helps to improve circulation and can significantly reduce the risk of developing blood clots, which are the primary cause of pulmonary emboli. Exercise encourages blood flow in the legs and throughout the body, which helps prevent the stagnant blood flow that can lead to clot formation. In contrast, obesity, prolonged bed rest, and pregnancy are all considered significant risk factors for pulmonary emboli. Obesity increases the risk due to additional pressure on veins and potential complications related to blood flow. Prolonged bed rest can lead to immobility, which increases the risk of clot formation as blood pools in the lower extremities. Pregnancy poses risks due to increased levels of certain clotting factors in a woman's body, along with changes in blood flow and pressure in the pelvic area, which can contribute to the likelihood of developing clots.

**2. What characterizes the 'flight of ideas' symptom?**

- A. Disconnected thoughts**
- B. Continuous, logical reasoning**
- C. Slow speech patterns**
- D. Decreased motivation**

The 'flight of ideas' symptom is characterized by rapid shifts in thought patterns where an individual expresses a stream of thoughts that are often loosely connected or entirely disconnected. This rapid movement from one idea to another occurs so quickly that it can be challenging for others to follow the conversation. It is commonly seen in manic episodes of bipolar disorder and can lead to a sense of overwhelming clarity, yet the thoughts may lack coherence. In contrast, continuous logical reasoning would maintain a steady and organized flow of ideas, which does not align with the fragmented nature of flight of ideas. Similarly, slow speech patterns would indicate a lack of rapid cognitive activity, and decreased motivation would suggest apathy rather than the exuberance and rapid thought associated with flight of ideas. Therefore, the defining feature of this symptom is indeed the presence of disconnected thoughts traversing at a quick pace.

### 3. What therapeutic approach is often utilized for anxiety disorders?

- A. Long-term antibiotic therapy**
- B. Medication combined with cognitive behavioral therapy**
- C. Intensive exercise regimen**
- D. Immediate hospitalization**

The therapeutic approach that is frequently utilized for anxiety disorders involves a combination of medication and cognitive behavioral therapy (CBT). This dual approach is effective because it addresses both the biological and psychological aspects of anxiety. Medications such as selective serotonin reuptake inhibitors (SSRIs) or benzodiazepines can help manage symptoms by altering brain chemistry, providing relief from the excessive worry, and panic that characterizes anxiety disorders. Meanwhile, cognitive behavioral therapy focuses on helping patients understand their thinking patterns and develop coping strategies to manage anxiety triggers. Combining these two methods can enhance treatment outcomes, as medication can stabilize a patient's mood and provide a foundation for the psychological work done through therapy. This approach also allows patients to develop skills that promote long-term coping, reducing the likelihood of relapse once treatments conclude. Other approaches like an intensive exercise regimen or immediate hospitalization may be beneficial in certain contexts, but they do not specifically target the core components required for effectively treating anxiety disorders as comprehensively as the combination of medication and cognitive behavioral therapy.

### 4. What does incomplete documentation of vital signs on a PCR imply?

- A. If you don't write it, it didn't happen**
- B. Vital signs are unimportant**
- C. Clinical assessments can be ignored**
- D. All patients respond similarly**

Incomplete documentation of vital signs on a patient care report (PCR) implies that if it is not documented, it is considered that it did not occur. This concept is critical in medical practice, where thorough and accurate documentation is essential for legal, clinical, and continuity of care reasons. When vital signs are not recorded, it raises questions about whether they were taken at all, which can impact the treatment and perception of a patient's condition during further medical evaluations. In emergency medical services, complete and accurate data is crucial for other healthcare providers to make informed decisions about patient care. The other options misunderstand the importance of documentation and the implications of incomplete records. Vital signs are a fundamental part of assessing a patient's health, and ignoring them could lead to dangerous assumptions in clinical assessments or in understanding patient responses. Each patient's medical situation is unique, and the notion that all patients respond the same way to treatment is a misconception that does not hold true in clinical settings. Therefore, emphasizing the importance of thorough documentation safeguards against these issues.

**5. What is the main charge of a cell at resting potential in terms of millivolts?**

- A. -70mV
- B. -90mV**
- C. 0mV
- D. +30mV

The main charge of a cell at resting potential is approximately -70mV. This negative value indicates that the interior of the cell is negatively charged relative to the outside. At resting potential, a neuron is polarized, primarily due to the distribution of ions across the cell membrane, with higher concentrations of potassium ions inside and sodium ions outside. This resting potential is crucial for the functioning of neurons, as it sets the stage for action potentials, which are necessary for the transmission of nerve impulses. The negative charge is maintained by the sodium-potassium pump, which actively transports ions to sustain this potential. Thus, -70mV is the correct value that represents the typical resting membrane potential in neurons, allowing them to respond to stimuli and propagate signals effectively.

**6. What is the maximum dose of Benadryl for managing an allergic reaction?**

- A. 25 mg
- B. 50 mg**
- C. 100 mg
- D. 1 mg/kg

The maximum dose of Benadryl, or diphenhydramine, for managing an allergic reaction in adults is typically recognized as 50 mg per dose. This dosage is based on the established guidelines for treating allergic reactions, where an effective dose needs to adequately alleviate symptoms such as itching, hives, and swelling without posing unnecessary risks of overdose. In practical application, administering 50 mg can provide sufficient relief for moderate allergic reactions, and this guideline helps healthcare professionals maintain a balance between efficacy and safety. While higher doses like 100 mg may sometimes be referenced in various contexts, they aren't generally recommended for initial management due to increased risks of side effects, including sedation and anticholinergic symptoms. Regarding 1 mg/kg, this option can apply in pediatric dosing or specific situations but isn't the standard upper limit for adults treating common allergic reactions. For adults, the more straightforward guideline remains at 50 mg, reflecting the consensus in medical practice for adult populations.

**7. In patients with Wolff-Parkinson-White (WPW) syndrome, what medication is contraindicated?**

- A. Adenosine**
- B. Lidocaine**
- C. Amiodarone**
- D. Epinephrine**

In patients with Wolff-Parkinson-White (WPW) syndrome, adenosine is contraindicated primarily due to its potential to worsen the rapid atrial rates associated with WPW. In WPW, there is an accessory pathway that can conduct impulses faster than the normal conduction system, which can lead to re-entrant tachycardias. Adenosine, while useful in other forms of supraventricular tachycardia by temporarily blocking the AV node, can inadvertently facilitate the conduction via the accessory pathway. This could result in an even faster ventricular response, leading to severe tachycardia and hemodynamic instability. In contrast, the other medications listed, such as lidocaine and amiodarone, may be used in WPW under particular circumstances, especially when dealing with ventricular arrhythmias. Epinephrine can also be used, but it must be administered cautiously as it could exacerbate tachycardia. Understanding the dynamics of WPW and the role of these medications is crucial for effective management in emergency situations.

**8. What is generally the first step in managing a patient with a 3rd Degree AV Block?**

- A. Medications only**
- B. Pacing**
- C. Defibrillation**
- D. Cardiac catheterization**

In managing a patient with a third-degree AV (atrioventricular) block, the first step typically involves pacing. Third-degree AV block, also known as complete heart block, occurs when there is a failure of electrical signals to be transmitted from the atria to the ventricles. As a result, the ventricles beat independently of the atrial contractions, which can lead to inadequate heart rate and cardiac output, manifesting as symptoms like dizziness, syncope, or even shock. Pacing, specifically temporary transcutaneous or transvenous pacing, is essential because it helps restore a suitable heart rate by directly stimulating the heart's ventricles. This intervention is critical in emergencies where the patient's hemodynamics are compromised due to the lack of ventricular rhythm associated with the block. In contrast, medications alone might not effectively resolve the underlying electrical problem in an emergency scenario. While medications such as atropine can be attempted in some cases, they are not the definitive treatment for third-degree block. Defibrillation is reserved for life-threatening arrhythmias, such as ventricular fibrillation or pulseless ventricular tachycardia, rather than for AV blocks. Cardiac catheterization, generally used for diagnosing or treating coronary artery disease, is not appropriate for

**9. What is the recommended course of action for managing unstable ventricular tachycardia (Vtach)?**

- A. Immediate defibrillation**
- B. Synchronized cardioversion**
- C. Intravenous potassium administration**
- D. Intravenous beta blockers**

Managing unstable ventricular tachycardia (Vtach) involves taking immediate and appropriate action to restore normal heart rhythm and maintain hemodynamic stability for the patient. Synchronized cardioversion is the recommended course of action in this scenario because it allows for the delivery of a controlled electrical shock at a specific point in the cardiac cycle, which can effectively terminate the abnormal rhythm while minimizing potential complications such as induced fibrillation. In the case of unstable Vtach, the patient may exhibit symptoms such as hypotension, altered mental status, chest pain, or signs of shock. Therefore, urgency is critical, and synchronized cardioversion not only addresses the arrhythmia but also provides a method that is synchronized with the patient's own heart rhythm, reducing risks associated with inadvertent shocks during the R-wave. While other options may also be therapeutic in specific contexts, they do not provide the immediate corrective action needed for unstable Vtach. For example, immediate defibrillation is reserved typically for life-threatening rhythms like ventricular fibrillation or pulseless Vtach. Intravenous potassium administration and intravenous beta blockers can have their roles in certain types of arrhythmias or underlying conditions but are not immediate interventions indicated for unstable Vtach. Therefore, synchronized cardioversion stands out

**10. What does a 3rd Degree AV Block indicate about the relationship between P waves and QRS complexes?**

- A. P waves are consistently followed by QRS complexes**
- B. There is no consistent relationship**
- C. QRS complexes always precede P waves**
- D. P waves and QRS complexes are fused**

A third-degree AV block, also known as complete heart block, signifies a complete dissociation between the atria and ventricles. In this condition, the electrical impulses originating from the atria (which create P waves) do not reach the ventricles, resulting in an absence of a consistent relationship between P waves and QRS complexes. As a result, the P waves may occur at their own intrinsic rate, while the QRS complexes also generate independently, each at their own rate. This lack of coordination highlights that, while both P waves and QRS complexes can be observed on the ECG, they do not follow a predictable pattern relative to one another, thus confirming that there is no consistent relationship. This is critical for recognizing the serious implications of third-degree AV block, as it can lead to hemodynamic instability due to ineffective ventricular contractions.