

North Carolina EMT State Practice Exam (Sample)

Study Guide



Everything you need from our exam experts!

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SAMPLE

Questions

- 1. What does a small pupil size (PERL) indicate?**
 - A. Narcotic and hypoxia**
 - B. Narcotic and organophosphate**
 - C. Brain injury and high blood pressure**
 - D. Dehydration and cardiac failure**
- 2. What symptom might be observed during a complex partial seizure?**
 - A. Twitching of large muscle groups**
 - B. Eye blinking and lip smacking**
 - C. Complete absence of motor activity**
 - D. Intense muscle rigidity**
- 3. What condition is characterized by two or more ribs broken in two or more places, resulting in a segment of the chest wall becoming detached?**
 - A. Flail chest**
 - B. Pneumothorax**
 - C. Hemothorax**
 - D. Rib fracture**
- 4. How is a D cylinder oxygen tank classified in terms of size?**
 - A. Large tank**
 - B. Medium tank**
 - C. Portable tank**
 - D. Fixed tank**
- 5. What is the nature of injuries sustained during the tertiary phase of a blast?**
 - A. Injuries from chemical exposure**
 - B. Burns from heat**
 - C. Impact injuries from being thrown**
 - D. Internal injuries from blast waves**

- 6. Priority One patient traits include which of the following?**
- A. Minor injuries only**
 - B. Airway, breathing, external bleeding**
 - C. Severe pain without life threat**
 - D. Patients able to follow commands**
- 7. At what point does the assessment begin in an ambulance operation?**
- A. During the transport**
 - B. At the patient's location**
 - C. At Dispatch**
 - D. Upon arrival at the hospital**
- 8. Why is accuracy important in medical records?**
- A. It can only serve as a liability**
 - B. Accuracy is the best defense or worst enemy**
 - C. Only necessary for legal compliance**
 - D. It is not particularly important**
- 9. What condition may result from an accumulation of blood or swelling of the brain in the skull?**
- A. Stroke**
 - B. Coma**
 - C. Intracranial pressure (ICP)**
 - D. Concussion**
- 10. What is the main purpose of the Emergency Medical Services Act?**
- A. To fund emergency services**
 - B. To define the scope and role of prehospital providers**
 - C. To establish emergency response protocols**
 - D. To provide training for EMTs**

Answers

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

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Explanations

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1. What does a small pupil size (PERL) indicate?

- A. Narcotic and hypoxia
- B. Narcotic and organophosphate**
- C. Brain injury and high blood pressure
- D. Dehydration and cardiac failure

A small pupil size, often referred to in medical terms as "miosis," can indicate several potential medical conditions. In the context of this question, a small pupil size can primarily be associated with exposure to narcotics and organophosphates. Narcotics, such as opioids, are known to cause constriction of the pupils. This is due to their action on the central nervous system, which affects the pupils by stimulating specific pathways that lead to miosis. Organophosphates, commonly found in certain pesticides, can also lead to small pupils due to their action as acetylcholinesterase inhibitors, resulting in an accumulation of acetylcholine at synapses, which can cause increased stimulation of the parasympathetic nervous system, leading to pupil constriction. Understanding the relationships between pupil size and these substances is critical in emergency medical situations. Recognizing that a patient might have ingested narcotics or been exposed to organophosphates allows first responders to make informed decisions about the necessary interventions and treatments for the patient. The other options present alternative conditions but are not typically associated with small pupil size.

2. What symptom might be observed during a complex partial seizure?

- A. Twitching of large muscle groups
- B. Eye blinking and lip smacking**
- C. Complete absence of motor activity
- D. Intense muscle rigidity

During a complex partial seizure, a person may exhibit specific, often repetitive behaviors, including eye blinking and lip smacking. These symptoms arise from abnormal electrical activity in the brain's temporal lobe, which can affect consciousness and lead to automatic, non-purposeful movements. Complex partial seizures typically do not involve the entire body or result in generalized jerking movements, as seen in generalized seizures. Instead, the individual may appear to be awake while experiencing altered awareness or confusion, often engaging in automatic behaviors without full awareness of their actions. This aspect helps to differentiate these seizures from other types that involve more widespread muscle group involvement or total lack of consciousness. Overall, the presence of automatic movements like eye blinking and lip smacking can serve as key indicators that a complex partial seizure is occurring, highlighting the unique characteristics of this seizure type.

3. What condition is characterized by two or more ribs broken in two or more places, resulting in a segment of the chest wall becoming detached?

A. Flail chest

B. Pneumothorax

C. Hemothorax

D. Rib fracture

Flail chest is characterized by the presence of two or more ribs broken in two or more places, creating a segment of the chest wall that becomes detached from the rest of the thoracic cavity. This condition results in paradoxical movement of the affected segment during breathing; while the rest of the chest expands, the flail segment may sink in during inhalation and bulge out during exhalation. This can significantly impair respiratory mechanics and lead to difficulties in ventilation, making it a serious condition that requires immediate medical attention. In contrast, pneumothorax involves air entering the pleural cavity, leading to lung collapse, but does not specifically describe the pattern of rib fractures. Hemothorax refers to blood accumulation in the pleural space, which may or may not involve rib fractures but is focused on the presence of blood rather than the structural integrity of the ribs. Rib fracture is a more general term that does not capture the specific scenario of multiple fractures leading to a flail segment. Therefore, flail chest is the most accurate term to denote the described condition.

4. How is a D cylinder oxygen tank classified in terms of size?

A. Large tank

B. Medium tank

C. Portable tank

D. Fixed tank

A D cylinder oxygen tank is classified as a portable tank because of its size and design, making it easy to carry and transport for emergency medical situations. These tanks typically hold a smaller volume of oxygen compared to larger tanks, which allows for easy maneuverability by EMS personnel during patient transport or in situations where space is limited. Portable tanks like the D cylinder are essential for providing oxygen at the scene of an emergency or during transport to a medical facility, ensuring that patients receive necessary oxygen therapy without the constraints of larger, more cumbersome tank options. The portability makes it an invaluable resource in pre-hospital care, where quick access to oxygen can be critical for patient outcomes. Larger tanks would generally remain stationary or fixed in a medical facility, while fixed tanks are typically installed in locations for permanent use and not meant to be moved frequently. Medium tanks, while also portable, are not the standard designation used for the D cylinder, which specifically emphasizes its size and practical use in emergency settings.

5. What is the nature of injuries sustained during the tertiary phase of a blast?

- A. Injuries from chemical exposure**
- B. Burns from heat**
- C. Impact injuries from being thrown**
- D. Internal injuries from blast waves**

The nature of injuries sustained during the tertiary phase of a blast primarily involves impact injuries from being thrown due to the force of the explosive event. In this phase, individuals can be propelled by the shockwave or the explosive blast, resulting in traumatic injuries from collision with structures, debris, or other objects. The mechanism of injury is fundamentally different from other phases; for instance, the secondary phase involves injuries from flying debris, and the primary phase relates to pressure changes affecting body structures. Understanding the tertiary phase is crucial for first responders, as it guides them in assessing and providing appropriate care for those injured in an explosive event. Recognizing the type of injuries that can occur helps in prioritizing interventions and improving patient outcomes in a disaster scenario.

6. Priority One patient traits include which of the following?

- A. Minor injuries only**
- B. Airway, breathing, external bleeding**
- C. Severe pain without life threat**
- D. Patients able to follow commands**

Priority One patients are those who have life-threatening conditions and require immediate intervention and transport. The traits of such patients typically include critical issues with airway, breathing, or circulation. In this context, when a patient presents with problems related to airway compromise, ineffective breathing, or uncontrolled external bleeding, they fall into the category of Priority One. These conditions necessitate the highest level of urgency in pre-hospital care, as timely intervention can be the difference between life and death for these patients. Options indicating minor injuries, severe pain without life threat, or patients who are able to follow commands do not align with the characteristics of Priority One patients. Minor injuries may be serious but do not usually warrant immediate transport as indicated by Priority One criteria. Severe pain without a life threat suggests that while the patient is in discomfort, they do not have an immediate threat to their life. Patients able to follow commands typically indicate a stable condition and are not necessarily in a critical state, further separating them from the traits of Priority One patients.

7. At what point does the assessment begin in an ambulance operation?

- A. During the transport**
- B. At the patient's location**
- C. At Dispatch**
- D. Upon arrival at the hospital**

The assessment in ambulance operations begins at dispatch. This is the point where the EMTs start gathering essential information about the nature of the incident, the condition of the patient, and any potential hazards that may be present. This initial phase involves dispatchers providing critical details such as the location of the emergency, the type of medical response needed, and information about the patient's condition if available. Beginning the assessment at dispatch allows EMTs to prepare appropriately for the situation they will encounter. They can strategize on necessary equipment, anticipate the need for advanced care, and understand the urgency of the response required. This foundational information is vital in ensuring that the care provided is timely and effective, setting the stage for further assessments that will occur once they arrive at the scene.

8. Why is accuracy important in medical records?

- A. It can only serve as a liability**
- B. Accuracy is the best defense or worst enemy**
- C. Only necessary for legal compliance**
- D. It is not particularly important**

The importance of accuracy in medical records is paramount in the healthcare field for several reasons. Accurate documentation ensures that patient care is delivered safely and effectively. Precise medical records contribute to continuity of care, enabling healthcare providers to make informed decisions based on a patient's complete and accurate medical history. Moreover, in legal contexts, accurate medical records serve as a crucial line of defense for healthcare providers. They provide evidence of the care provided, decisions made, and actions taken in the best interest of the patient. In situations where there may be disputes or questions about the standard of care delivered, thorough documentation can substantiate a provider's actions and decisions. Therefore, accuracy in medical records can either protect against legal repercussions or expose providers to liability if information is incorrect or incomplete. This highlights the dual nature of medical documentation: it can indeed serve as "the best defense" when records are accurate and reflect true circumstances, while poorly maintained records may become "the worst enemy" by leading to misunderstandings, misdiagnoses, and potential legal consequences. Thus, the emphasis on accuracy in medical records is essential for both patient safety and legal protection.

9. What condition may result from an accumulation of blood or swelling of the brain in the skull?

A. Stroke

B. Coma

C. Intracranial pressure (ICP)

D. Concussion

Intracranial pressure (ICP) refers to the pressure inside the skull that is exerted by the brain, blood, and cerebrospinal fluid. When there is an accumulation of blood, such as from a hemorrhage, or swelling of the brain, potentially caused by injury or inflammation, the volume within the rigid confines of the skull increases. This can lead to elevated intracranial pressure as the brain and its components cannot expand to accommodate the excess fluid or swelling. High ICP can compress brain tissue, potentially leading to severe complications, including herniation of brain tissue, decreased cerebral perfusion, and neurological damage. It is a serious medical condition that requires immediate evaluation and intervention to prevent further harm to the brain. While stroke, coma, and concussion are related to brain injuries and conditions, they do not directly describe the phenomenon of pressure build-up in the skull that results from fluid accumulation or swelling. Stroke refers to a disruption of blood flow to a part of the brain, coma is a state of prolonged unconsciousness that can result from various conditions including severe brain injury or metabolic disturbances, and concussion is a type of traumatic brain injury characterized by transient loss of function. None specifically denote the effect of increased pressure within the cranial cavity itself.

10. What is the main purpose of the Emergency Medical Services Act?

A. To fund emergency services

B. To define the scope and role of prehospital providers

C. To establish emergency response protocols

D. To provide training for EMTs

The main purpose of the Emergency Medical Services Act is to define the scope and role of prehospital providers. This involves establishing parameters for what EMTs and other emergency medical personnel are trained to do, the procedures they are authorized to perform, and how they operate within the healthcare system. By clearly defining these roles, the Act ensures that there is consistency in the quality of care provided to patients during emergencies, and it helps to standardize training and operational protocols across different jurisdictions. While funding for emergency services, establishing emergency response protocols, and providing training for EMTs are important aspects of emergency medical services, they are more specific components that fall under the broader framework set by the Act. Thus, the primary focus remains on outlining the essential functions and responsibilities of prehospital providers, which is critical for effective emergency response and patient care.