

Chicago Emergency Medical Technician (EMT) Practice Exam (Sample)

Study Guide



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SAMPLE

Questions

- 1. Which statement best describes the third stage of labor?**
 - A. The infant is completely delivered**
 - B. The amniotic sac ruptures**
 - C. The placenta is expelled from the uterus**
 - D. The infant's head appears**
- 2. Which mechanism of a lightning strike primarily damages air-containing structures in the body?**
 - A. A. Direct contact with thermal energy**
 - B. B. Rapid expansion of the air**
 - C. C. Direct contact with electrical energy**
 - D. D. Smooth muscle contraction from electrical energy**
- 3. Which vital sign finding indicates the need for positive pressure ventilation immediately?**
 - A. Pulse of 60**
 - B. Respirations of 12**
 - C. Pulse oximeter reading of 92 percent**
 - D. Blood pressure of 120/80**
- 4. What is your priority after treating a child suspected to be a victim of human trafficking?**
 - A. If possible, remove the child from the environment**
 - B. Interview the patient until the police arrive**
 - C. Confront the adult about your suspicions**
 - D. Collect evidence for the police department**
- 5. If a pediatric patient has an altered mental status but other parameters are normal, what would be their Pediatric Glasgow Coma Scale score?**
 - A. 11**
 - B. 14**
 - C. 13**
 - D. 12**

- 6. What is the lining of the abdominal cavity called?**
- A. Peritoneum**
 - B. Visceral pleura**
 - C. Dura mater**
 - D. Perineum**
- 7. For a pregnant patient experiencing vaginal bleeding, what is the appropriate treatment?**
- A. Lightly packing the vagina with gauze**
 - B. Elevating the patient's hips**
 - C. Placing a sanitary pad over the vagina**
 - D. Palpating the area for injury**
- 8. For a diabetic patient who is glycemic uncontrolled, what should be monitored frequently?**
- A. Vital signs only.**
 - B. Body weight change.**
 - C. Blood glucose levels.**
 - D. Exercise routine.**
- 9. What is the main complication of untreated severe hypoglycemia?**
- A. Long-term liver damage.**
 - B. Seizures or loss of consciousness.**
 - C. Excessive thirst and urination.**
 - D. Weight gain.**
- 10. Which type of seizure is classified as secondary in pediatric patients?**
- A. Complex partial seizure**
 - B. Simple partial seizure**
 - C. Jacksonian motor seizure**
 - D. Febrile seizure**

Answers

SAMPLE

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

SAMPLE

Explanations

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1. Which statement best describes the third stage of labor?

- A. The infant is completely delivered**
- B. The amniotic sac ruptures**
- C. The placenta is expelled from the uterus**
- D. The infant's head appears**

The third stage of labor is defined as the period after the baby is born and concludes with the delivery of the placenta. The correct statement accurately reflects that the placenta is expelled from the uterus during this stage. This process typically occurs within a few minutes to up to half an hour after the delivery of the infant. It is crucial as it helps to prevent complications such as postpartum hemorrhage. The other options describe either earlier stages or events in the labor process. For instance, the complete delivery of the infant pertains to the second stage of labor, while the rupture of the amniotic sac usually happens in the first stage, often referred to as the "water breaking." The appearance of the infant's head is also a hallmark of the second stage of labor, signifying the crowning phase just before the baby is fully delivered. Hence, while these events are integral to the overall labor process, they do not describe the third stage accurately.

2. Which mechanism of a lightning strike primarily damages air-containing structures in the body?

- A. A. Direct contact with thermal energy**
- B. B. Rapid expansion of the air**
- C. C. Direct contact with electrical energy**
- D. D. Smooth muscle contraction from electrical energy**

The primary mechanism through which a lightning strike causes damage to air-containing structures in the body, such as the lungs, is the rapid expansion of air. When lightning strikes, the intense heat generated can cause the air surrounding the current to expand dramatically and suddenly. This rapid expansion creates a shock wave that can rupture air-containing organs, especially in the case of the lungs. The lung tissue can be severely affected, leading to conditions such as pneumothorax (collapsed lung) or other forms of airway injury due to the explosive force of the air expanding. While direct contact with thermal energy can cause burns and injury to tissue, the specific damage to air-containing structures is primarily due to the shock wave from rapidly expanding air. Similarly, while electrical energy can cause various injuries, it is the physical mechanical effect of air expansion that predominantly impacts the structures containing air when it comes to lightning strikes. As for smooth muscle contraction, while electrical energy can indeed stimulate muscles, it does not specifically cause the type of damage associated with air-containing structures as does the rapid air expansion.

3. Which vital sign finding indicates the need for positive pressure ventilation immediately?

A. Pulse of 60

B. Respirations of 12

C. Pulse oximeter reading of 92 percent

D. Blood pressure of 120/80

A pulse oximeter reading of 92 percent is an important indicator of oxygen saturation in the blood. Normal oxygen saturation levels typically range from 95 to 100 percent in healthy individuals. When saturation falls below 90 percent, it is indicative of potential hypoxemia, which means that the body is not receiving enough oxygen. In emergency medical situations, this low oxygen saturation can pose serious risks to patient safety and may lead to vital organ dysfunction if not addressed promptly. In this context, providing positive pressure ventilation can assist in improving the patient's oxygenation by delivering air directly into the lungs. This intervention helps to augment the tidal volume and increase the delivery of oxygen to the bloodstream. Therefore, a pulse oximeter reading of 92 percent clearly signifies an urgent need for immediate attention through positive pressure ventilation to improve the patient's oxygen levels and overall respiratory status.

4. What is your priority after treating a child suspected to be a victim of human trafficking?

A. If possible, remove the child from the environment

B. Interview the patient until the police arrive

C. Confront the adult about your suspicions

D. Collect evidence for the police department

The highest priority after treating a child suspected to be a victim of human trafficking is to ensure the child's safety. If possible, removing the child from the environment in which they may be at risk is crucial. This action helps protect the child from further harm and potential threats, as their immediate safety and well-being are of utmost importance. Even if other actions, such as collecting evidence or interviewing the patient, are relevant in addressing the situation, those tasks should come after ensuring that the child is in a safe environment. The child may be vulnerable and in need of immediate protection from perpetrators or harmful circumstances. Thus, taking steps to remove the child from that environment is the most critical and appropriate action to prioritize.

5. If a pediatric patient has an altered mental status but other parameters are normal, what would be their Pediatric Glasgow Coma Scale score?

A. 11

B. 14

C. 13

D. 12

The Pediatric Glasgow Coma Scale (GCS) is a tool used to assess the level of consciousness in children, similar to its use in adults, but it takes into account the developmental differences in pediatric populations. The scale is broken down into three components: eye opening, verbal response, and motor response, with the scores ranging from 3 (indicating deep unconsciousness) to 15 (indicating full consciousness). In this scenario, the pediatric patient has an altered mental status, suggesting that their level of responsiveness is diminished when assessed. Since other parameters are normal—indicating no apparent issues with vital signs or other physiological functions—this can suggest that while there might be some cognitive impairment, the overall alertness is not severely compromised. A GCS score of 14 accounts for a mild alteration in consciousness; typically, a score in this range indicates that the child can open their eyes spontaneously, is oriented to person, place, and time, and can follow commands appropriately. This aligns with the indication of altered mental status without severe impairment. Thus, when considering the typical scoring rubric for the Pediatric GCS and the described condition of the patient, a score of 14 is appropriate, representing a mild impairment rather than a moderate or severe one.

6. What is the lining of the abdominal cavity called?

A. Peritoneum

B. Visceral pleura

C. Dura mater

D. Perineum

The lining of the abdominal cavity is known as the peritoneum. This thin membrane plays a crucial role in supporting the organs located within the abdominal cavity and has various functions, including providing a slippery surface that reduces friction between the organs during movement. The peritoneum is divided into two layers: the parietal peritoneum, which lines the abdominal wall, and the visceral peritoneum, which covers the abdominal organs. Understanding the peritoneum's structure and function is essential for recognizing various medical conditions and their management within the gastrointestinal system.

7. For a pregnant patient experiencing vaginal bleeding, what is the appropriate treatment?

- A. Lightly packing the vagina with gauze**
- B. Elevating the patient's hips**
- C. Placing a sanitary pad over the vagina**
- D. Palpating the area for injury**

In cases of vaginal bleeding in a pregnant patient, placing a sanitary pad over the vagina is a crucial step. This approach serves multiple purposes: it helps to absorb any bleeding, allowing for better assessment of the amount of blood lost, and it provides a measure of comfort for the patient. Additionally, using a sanitary pad can assist in preventing contamination and helps the emergency medical personnel monitor the situation without causing further irritation to the area. While the options related to packing the vagina, elevating the hips, and palpating the area may prompt consideration, they do not adequately address the immediate needs of the patient experiencing vaginal bleeding. Packing could potentially worsen the situation, elevate the hips is typically reserved for certain scenarios like shock, and palpating may not be necessary or beneficial if the bleeding is the primary concern that needs addressing first. Thus, placing a sanitary pad is both a practical and clinical choice in this scenario.

8. For a diabetic patient who is glycemic uncontrolled, what should be monitored frequently?

- A. Vital signs only.**
- B. Body weight change.**
- C. Blood glucose levels.**
- D. Exercise routine.**

Monitoring blood glucose levels is crucial for a diabetic patient who is glycemic uncontrolled. This is because unstable or elevated blood glucose levels can lead to serious complications, including diabetic ketoacidosis or hyperglycemic hyperosmolar state. Frequent monitoring allows healthcare providers to assess how well the patient's diabetes is being managed and to make necessary adjustments to their treatment or lifestyle. Understanding blood glucose readings helps in identifying patterns that may indicate the need for changes in medication, diet, or physical activity to achieve better glycemic control. For someone dealing with diabetes, keeping blood glucose levels within the target range is vital for preventing both short-term and long-term complications associated with the disease.

9. What is the main complication of untreated severe hypoglycemia?

- A. Long-term liver damage.**
- B. Seizures or loss of consciousness.**
- C. Excessive thirst and urination.**
- D. Weight gain.**

The main complication of untreated severe hypoglycemia is seizures or loss of consciousness. When a person's blood glucose levels drop dangerously low, the brain does not receive enough glucose, which is its primary source of energy. This depletion can lead to neuroglycopenia, where the brain cells begin to function improperly due to lack of glucose, ultimately resulting in symptoms such as confusion, seizures, or even coma. In severe cases, if hypoglycemia is not promptly corrected, it can lead to significant neurological damage due to prolonged oxygen deprivation and energy deficiency in the brain. This highlights the critical need for immediate treatment of hypoglycemia to restore adequate glucose levels and prevent these severe complications. The other options, while associated with various conditions, do not directly relate to the immediate and dangerous effects of severe hypoglycemia. For instance, long-term liver damage is not a typical outcome of hypoglycemia, and excessive thirst and urination are more closely associated with hyperglycemia or conditions like diabetes rather than hypoglycemia. Weight gain is also unrelated, as it pertains to caloric balance rather than acute blood sugar crises.

10. Which type of seizure is classified as secondary in pediatric patients?

- A. Complex partial seizure**
- B. Simple partial seizure**
- C. Jacksonian motor seizure**
- D. Febrile seizure**

A febrile seizure is classified as a secondary seizure in pediatric patients because it is triggered by a fever, often due to an underlying infection. These seizures typically occur in young children, particularly those between six months and five years, and are often associated with rapid spikes in body temperature. Unlike primary seizures, which may have no identifiable cause and are intrinsic to the brain's electrical activity, febrile seizures are provoked by an external factor—the fever itself. In contrast, seizures such as complex partial seizures, simple partial seizures, and Jacksonian motor seizures are usually considered primary seizures. These types arise from disturbances in the brain's electrical activity without being specifically linked to an external trigger like fever. Understanding the classification of seizures is important for proper diagnosis and treatment, especially in pediatric populations, where differences in seizure type can influence management strategies.