

Prehospital Trauma Life Support (PHTLS) Practice Test (Sample)

Study Guide



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SAMPLE

Questions

- 1. In the case of a tension pneumothorax, what is the immediate management step?**
 - A. Administer high-flow oxygen**
 - B. Perform needle decompression to alleviate the pressure**
 - C. Secure the airway with intubation**
 - D. Perform chest physiotherapy for lung expansion**
- 2. What is the preferred site for needle decompression of a tension pneumothorax?**
 - A. 4th intercostal space, midclavicular line, just over the top of the 5th rib**
 - B. 4th intercostal space, midclavicular line, just below the 4th rib**
 - C. 2nd intercostal space, midclavicular line, just over the top of the 3rd rib**
 - D. 2nd intercostal space, midclavicular line, just below the 2nd rib**
- 3. How does PHTLS approach the management of pre-existing medical conditions in trauma care?**
 - A. By evaluating their impact on injury severity and treatment protocols**
 - B. By ignoring these conditions unless they become critical**
 - C. By treating trauma as separate from pre-existing conditions**
 - D. By solely focusing on the injury itself**
- 4. What is the potential blood loss into the tissue from a fractured femur in an adult patient?**
 - A. 150 to 500 mL**
 - B. 500 to 1000 mL**
 - C. 1000 to 2000 mL**
 - D. 2500 to 5000 mL**
- 5. How do you assess for a potential flail chest?**
 - A. Listen for abnormal lung sounds**
 - B. Observe for paradoxical movement of the chest wall during breathing**
 - C. Perform a chest X-ray immediately**
 - D. Check for skin integrity around the chest**

- 6. The most immediate life threatening condition resulting from injury to solid abdominal organs is which of the following?**
- A. Acute respiratory failure**
 - B. Hemorrhage**
 - C. Multiple organ failure**
 - D. Peritonitis**
- 7. In PHTLS, how often should reassessment occur for stable trauma patients?**
- A. Every 30 minutes**
 - B. Every 15 minutes or as necessary based on condition changes**
 - C. Every hour**
 - D. Only at the end of the shift**
- 8. What are indicators of possible cardiac contusion in a trauma patient?**
- A. Chest pain, arrhythmias, and signs of shock**
 - B. Headaches and dizziness only**
 - C. Skin rashes and swelling**
 - D. Only heart rate without other symptoms**
- 9. What is the most appropriate initial action for a deep laceration with significant bleeding?**
- A. Apply a tourniquet**
 - B. Apply direct pressure**
 - C. Initiate rapid transport**
 - D. Restore blood volume**
- 10. What is essential for effective communication within a trauma team?**
- A. Assigning roles and responsibilities clearly**
 - B. Having all team members be on-call**
 - C. Using a single communication tool only**
 - D. Making decisions independently without consulting others**

Answers

SAMPLE

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

SAMPLE

Explanations

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1. In the case of a tension pneumothorax, what is the immediate management step?

- A. Administer high-flow oxygen**
- B. Perform needle decompression to alleviate the pressure**
- C. Secure the airway with intubation**
- D. Perform chest physiotherapy for lung expansion**

The immediate management step for a tension pneumothorax involves performing needle decompression to alleviate the pressure within the pleural space. A tension pneumothorax occurs when air enters the pleural space and cannot escape, creating increased pressure that compromises respiratory function and circulation. This elevated pressure can lead to significant cardiovascular and respiratory distress, necessitating swift intervention. Needle decompression involves inserting a large-bore needle into the second intercostal space in the midclavicular line on the affected side to allow trapped air to escape. This procedure relieves the pressure, re-expands the lung, and restores normal hemodynamics, which is critical for the patient's survival. The other options, while part of initial trauma management, do not address the immediate life-threatening condition posed by a tension pneumothorax. Administering high-flow oxygen may be necessary later to manage hypoxemia but does not resolve the pneumothorax. Securing the airway is vital in many trauma patients but does not directly treat the tension pneumothorax. Performing chest physiotherapy is not appropriate as it does not address the acute pressure situation caused by the air in the pleural space. Therefore, needle decompression is the critical immediate step that must be

2. What is the preferred site for needle decompression of a tension pneumothorax?

- A. 4th intercostal space, midclavicular line, just over the top of the 5th rib**
- B. 4th intercostal space, midclavicular line, just below the 4th rib**
- C. 2nd intercostal space, midclavicular line, just over the top of the 3rd rib**
- D. 2nd intercostal space, midclavicular line, just below the 2nd rib**

The preferred site for needle decompression of a tension pneumothorax is the 2nd intercostal space along the midclavicular line, just over the top of the 3rd rib. This location is commonly used due to several important factors. Firstly, the 2nd intercostal space is easily accessible and is located in a region that allows for a direct pathway to the pleural space without significant risk to major vessels or structures beneath it. By placing the needle above the rib, the healthcare provider avoids the neurovascular bundle that runs along the inferior aspect of each rib, thereby minimizing the risk of complications. Secondly, the anatomical landmarks are well defined and can be easily located in the majority of patients, making it a reliable site for emergency interventions in prehospital settings. Furthermore, decompressing the pleural cavity at this site effectively reduces intrathoracic pressure, providing immediate relief from the potentially life-threatening condition of a tension pneumothorax. In contrast, other options may place the needle too low or too close to structure risks, leading to injury or ineffective decompression. Therefore, the selection of the 2nd intercostal space at the midclavicular line is considered the best practice in emergency

3. How does PHTLS approach the management of pre-existing medical conditions in trauma care?

- A. By evaluating their impact on injury severity and treatment protocols**
- B. By ignoring these conditions unless they become critical**
- C. By treating trauma as separate from pre-existing conditions**
- D. By solely focusing on the injury itself**

The PHTLS approach to managing pre-existing medical conditions in trauma care emphasizes the importance of evaluating their impact on injury severity and treatment protocols. In trauma situations, a patient's pre-existing conditions can significantly affect their response to injuries and the overall management of their care. For instance, a patient with a history of cardiovascular disease may have a different risk profile for complications compared to a healthy individual. Recognizing these conditions allows for tailored treatment strategies that consider both the trauma and any underlying health issues, thus improving patient outcomes. Additionally, understanding pre-existing conditions enables healthcare providers to anticipate potential complications and make informed decisions regarding interventions and resource allocation. This holistic view contrasts with approaches that might neglect these conditions, focusing solely on the trauma itself or ignoring them until they escalate to a critical point. By paying attention to both trauma and pre-existing medical conditions, PHTLS promotes a more comprehensive and effective management strategy in the prehospital setting.

4. What is the potential blood loss into the tissue from a fractured femur in an adult patient?

- A. 150 to 500 mL**
- B. 500 to 1000 mL**
- C. 1000 to 2000 mL**
- D. 2500 to 5000 mL**

The correct answer is based on the understanding of the anatomy and physiology of bone injuries, particularly for a femoral fracture in adults. A fractured femur can lead to significant internal bleeding due to the large blood vessels that run near and within the thigh, including the femoral artery and various branches. In adults, when there is a fracture of the femur, the potential volume of blood that can accumulate in the surrounding tissue can range from 1000 to 2000 mL. This volume includes both the blood loss into the tissue and the potential for hemothorax or other complications, as the fracture can disrupt vascular structures. Understanding the volume of potential blood loss is important for emergency medical personnel as it helps in evaluating the severity of the injury and prioritizing treatment, including fluid resuscitation and surgical intervention if necessary. This volume is considerable and can lead to hypovolemic shock if not managed promptly.

5. How do you assess for a potential flail chest?

- A. Listen for abnormal lung sounds**
- B. Observe for paradoxical movement of the chest wall during breathing**
- C. Perform a chest X-ray immediately**
- D. Check for skin integrity around the chest**

To assess for a potential flail chest, observing for paradoxical movement of the chest wall during breathing is the most direct and effective method. Flail chest occurs when multiple adjacent ribs are fractured in multiple places, leading to a segment of the chest wall that moves in the opposite direction of the rest of the thoracic cage during inhalation and exhalation. This paradoxical movement is a hallmark sign of flail chest. By monitoring the movement of the chest wall, you can detect this abnormal pattern, which suggests significant underlying injury to the thoracic structures. In the presence of flail segments, during inhalation, the affected area may be drawn inward while the rest of the chest expands, and during exhalation, it may bulge outward while the rest of the chest contracts. Identifying this pattern is crucial for immediate management and may guide treatment decisions, such as the need for stabilization or the use of positive pressure ventilation. Other assessment methods, such as listening for abnormal lung sounds, performing chest X-rays, or checking for skin integrity, do not provide the same direct evidence for the presence of flail chest. While these methods contribute to a comprehensive assessment, they are not as specific or immediate in confirming the diagnosis of a flail chest.

6. The most immediate life threatening condition resulting from injury to solid abdominal organs is which of the following?

- A. Acute respiratory failure**
- B. Hemorrhage**
- C. Multiple organ failure**
- D. Peritonitis**

In cases of injury to solid abdominal organs, hemorrhage is the most immediate life-threatening condition that can occur. Solid organs, such as the spleen, liver, and kidneys, have a rich blood supply, and when they are injured, they can bleed profusely. This loss of blood can lead to hypovolemic shock, a critical state where there is insufficient blood volume to maintain adequate circulation, thereby threatening the patient's life. Rapid identification and management of hemorrhage are crucial in trauma care because significant blood loss can occur quickly, necessitating immediate intervention such as fluid resuscitation and possible surgical intervention to control the bleeding. In the context of trauma, addressing hemorrhage is often the first priority to stabilize the patient and prevent further complications. Other conditions like acute respiratory failure, multiple organ failure, and peritonitis, while serious, may not arise as quickly or directly as the immediate threats posed by ongoing hemorrhage following solid organ injury.

7. In PHTLS, how often should reassessment occur for stable trauma patients?

A. Every 30 minutes

B. Every 15 minutes or as necessary based on condition changes

C. Every hour

D. Only at the end of the shift

For stable trauma patients, reassessment every 15 minutes or as necessary based on any changes in their condition is essential. This frequency allows for timely identification of any deterioration or improvement in the patient's status, enabling appropriate medical interventions. Regular reassessment is part of the monitoring process to ensure that any subtle changes in vital signs or clinical presentation are detected early, which is critical in a trauma setting where a patient's condition can change rapidly. The rationale behind this approach is grounded in the understanding that trauma patients can have dynamic physiological responses due to factors such as internal bleeding, head injuries, or the effects of pain and shock. By reassessing every 15 minutes, healthcare providers can effectively monitor these variables and adjust treatment protocols accordingly, ensuring optimal patient outcomes. In contrast, options suggesting longer intervals, such as every 30 minutes or every hour, do not provide the necessary vigilance required in trauma care, where conditions can change significantly in a short period. A reassessment only at the end of the shift neglects the continuous need for monitoring during a patient's care, which could lead to delays in critical interventions.

8. What are indicators of possible cardiac contusion in a trauma patient?

A. Chest pain, arrhythmias, and signs of shock

B. Headaches and dizziness only

C. Skin rashes and swelling

D. Only heart rate without other symptoms

Indicators of possible cardiac contusion in a trauma patient include chest pain, arrhythmias, and signs of shock. These symptoms are critical for identifying potential injury to the heart that can occur due to blunt trauma, such as from a car accident. Chest pain is a common symptom that may indicate heart injury or stress on the cardiac tissues. Arrhythmias, which are abnormal heart rhythms, can occur as a direct result of injury to the myocardial cells or from triggers related to trauma. Signs of shock, such as hypotension (low blood pressure) or altered mental status, can also point to significant cardiovascular compromise stemming from a cardiac contusion or other serious injuries. The other options do not encompass the primary indicators associated with cardiac contusion. Headaches and dizziness might suggest other neurological issues, skin rashes and swelling would not typically relate to cardiac injury, and merely assessing heart rate without the context of additional symptoms fails to provide a comprehensive picture of the patient's condition. Therefore, recognizing the combination of chest pain, arrhythmias, and signs of shock is vital for timely diagnosis and treatment.

9. What is the most appropriate initial action for a deep laceration with significant bleeding?

- A. Apply a tourniquet**
- B. Apply direct pressure**
- C. Initiate rapid transport**
- D. Restore blood volume**

Applying direct pressure to a deep laceration with significant bleeding is the most appropriate initial action. This method addresses the primary goal of controlling bleeding effectively. Direct pressure helps to compress the blood vessels at the site of the injury, which can significantly reduce blood loss. It is a fundamental technique taught in trauma care, emphasizing that controlling hemorrhage is a crucial step before considering further interventions. This approach should be applied immediately while assessing the patient's overall condition, which may include checking responsiveness, airway, breathing, and circulation. If direct pressure is not successful in controlling the bleeding within a reasonable time, other measures like a tourniquet can be considered, especially for limbs. However, initiating rapid transport or restoring blood volume can be critical in managing trauma patients, those actions are typically secondary to and contingent upon the effective control of bleeding at the source. Thus, starting with direct pressure is a foundational principle in trauma management.

10. What is essential for effective communication within a trauma team?

- A. Assigning roles and responsibilities clearly**
- B. Having all team members be on-call**
- C. Using a single communication tool only**
- D. Making decisions independently without consulting others**

Effective communication within a trauma team relies heavily on clearly assigning roles and responsibilities. This clarity ensures that each team member knows their specific tasks, which enhances coordination and facilitates prompt and efficient care for the patient. When roles are defined, it minimizes confusion and allows team members to focus on their assigned duties while also understanding how their role interacts with others, ultimately leading to better teamwork and patient outcomes. The other options may seem relevant but do not contribute to effective communication in the same way. Having all team members on-call does not address the necessity of clarity in communication during patient care. Using a single communication tool can limit flexibility and might not suit all scenarios, potentially hindering comprehensive communication. Additionally, making decisions independently without consulting others disrupts teamwork and can result in disjointed care, as it disregards the collaborative nature that is crucial in a trauma setting.