

AAOS Emergency Care and Transport of the Sick and Injured Practice Exam (Sample)

Study Guide



Everything you need from our exam experts!

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SAMPLE

Questions

- 1. What are portable, compressed gas containers used to hold called?**
 - A. Canisters**
 - B. Cylinders**
 - C. Bottles**
 - D. Vessels**
- 2. What condition is characterized by the compression of the heart due to fluid buildup in the pericardial sac?**
 - A. Cardiac tamponade**
 - B. Heart failure**
 - C. Cardiac arrest**
 - D. Pericarditis**
- 3. What condition is characterized by the slow onset of progressive disorientation and loss of cognitive function?**
 - A. Delirium**
 - B. Dementia**
 - C. Amnesia**
 - D. Schizophrenia**
- 4. Advanced lifesaving procedures that some EMTs now provide are known as what?**
 - A. Basic Life Support (BLS)**
 - B. Emergency Care (EC)**
 - C. Advance Life Support (ALS)**
 - D. Critical Care (CC)**
- 5. What does a bulging of an aneurysm indicate?**
 - A. Swelling of the vessel**
 - B. Decrease in blood flow**
 - C. Weakness of the vessel wall**
 - D. Increased vascular tension**

- 6. What is the principal function of the diaphragm in the human body?**
- A. Support lateral spines**
 - B. Contract during inhalation**
 - C. Produce sputum**
 - D. Increase lymphatic function**
- 7. Which process refers to directing responders to return to their facilities after finishing work at a disaster site?**
- A. Evacuation**
 - B. Demobilization**
 - C. Reintegration**
 - D. Debriefing**
- 8. Which heart valve prevents blood from flowing back into the left ventricle after it is ejected into the aorta?**
- A. Pulmonary valve**
 - B. Aortic valve**
 - C. Tricuspid valve**
 - D. Mitral valve**
- 9. Which method of ventilation is primarily used in the treatment of critically ill patients with respiratory distress and can prevent the need for endotracheal intubation?**
- A. BiPAP**
 - B. Continuous Positive Airway Pressure (CPAP)**
 - C. Oxygen Therapy**
 - D. Mechanical Ventilation**
- 10. During labor, what does the term 'crowning' signify?**
- A. The onset of contractions**
 - B. Delivery of the placenta**
 - C. The fetal head becoming visible at the vaginal opening**
 - D. Reduction in the cervix size**

Answers

SAMPLE

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

SAMPLE

Explanations

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1. What are portable, compressed gas containers used to hold called?

A. Canisters

B. Cylinders

C. Bottles

D. Vessels

Portable, compressed gas containers are referred to as cylinders. This term specifically describes a type of container designed to safely store gases under pressure. Cylinders are made to withstand high pressures, ensuring that the gas inside does not escape unintentionally and that the container remains stable during transport and use. They come in various sizes and are commonly utilized in medical settings, industrial applications, and various other fields that require the safe storage and handling of gases. The term "cylinders" captures the structural characteristics of these containers, which are typically cylindrical in shape, allowing for efficient storage and space management. These containers often have specific regulations and standards associated with their manufacturing and usage because of the safety risks associated with high-pressure gases. Understanding the specific terminology in the context of emergency care or transport situations is critical, as it can affect how professionals communicate and act regarding patient care and equipment management.

2. What condition is characterized by the compression of the heart due to fluid buildup in the pericardial sac?

A. Cardiac tamponade

B. Heart failure

C. Cardiac arrest

D. Pericarditis

The condition characterized by the compression of the heart due to the accumulation of fluid in the pericardial sac is known as cardiac tamponade. This occurs when excess fluid collects in the pericardial space, leading to increased pressure on the heart. As a result, the heart is unable to fill properly between beats, which can severely impede its ability to pump blood effectively. In cardiac tamponade, the invaginated pericardium surrounds the heart and the buildup of fluid restricts its movement. Symptoms of this condition may include hypotension, muffled heart sounds, and distended neck veins, often recognizable as part of Beck's triad. Prompt recognition and management, including potential pericardiocentesis, are critical in treating this life-threatening condition. In contrast, heart failure refers to the heart's inability to pump sufficient blood to meet the body's needs, which is not primarily due to fluid accumulation in the pericardial sac. Cardiac arrest is the cessation of effective cardiac activity resulting in the loss of consciousness and pulse. Pericarditis is inflammation of the pericardium that may lead to chest pain and, in some cases, can progress to tamponade, but it does not inherently involve the

3. What condition is characterized by the slow onset of progressive disorientation and loss of cognitive function?

- A. Delirium**
- B. Dementia**
- C. Amnesia**
- D. Schizophrenia**

The condition that is characterized by slow onset of progressive disorientation and loss of cognitive function is dementia. Dementia is an umbrella term used to describe a range of cognitive impairments that interfere with daily life, including memory loss, impaired reasoning, and difficulties with communication. The symptoms often develop gradually and worsen over time, distinguishing dementia from other conditions that may have a more acute or sudden onset. In dementia, individuals may first experience forgetfulness and difficulty in forming new memories, which can progress to more severe deficits such as disorientation to time and place, personality changes, and eventually difficulty in performing everyday tasks. It is important to note that while dementia leads to a decline in cognitive abilities, it is not a specific disease but rather describes a collection of symptoms caused by various underlying conditions, such as Alzheimer's disease or vascular dementia.

4. Advanced lifesaving procedures that some EMTs now provide are known as what?

- A. Basic Life Support (BLS)**
- B. Emergency Care (EC)**
- C. Advance Life Support (ALS)**
- D. Critical Care (CC)**

Advanced lifesaving procedures that some EMTs now provide are referred to as Advanced Life Support (ALS). This terminology reflects the higher level of training and capability beyond Basic Life Support (BLS), which typically focuses on essential life-saving procedures such as CPR and the use of an Automated External Defibrillator (AED). ALS includes more complex interventions such as advanced airway management, administration of medications, cardiac monitoring, and intravenous therapy. EMTs who are trained to perform ALS procedures have undergone additional education and certification, enabling them to respond more effectively to serious medical emergencies. In contrast, Basic Life Support is primarily concerned with maintaining adequate circulation and breathing without the use of advanced techniques or medications. Emergency Care encompasses a broader scope of prehospital care, but it does not specifically denote the advanced skills and technical procedures included in ALS. Critical Care generally refers to a specialized level of care provided in an emergency department or intensive care unit rather than the prehospital setting.

5. What does a bulging of an aneurysm indicate?

- A. Swelling of the vessel**
- B. Decrease in blood flow**
- C. Weakness of the vessel wall**
- D. Increased vascular tension**

A bulging of an aneurysm indicates a weakness of the vessel wall. An aneurysm forms when a section of a blood vessel becomes weakened, causing it to dilate or bulge under the pressure of blood flow. This structural weakness can result from various factors, including hypertension, atherosclerosis, or genetic predispositions. As blood continues to flow through the vessel, the area that has weakened cannot withstand the normal pressure, leading to the characteristic bulging associated with an aneurysm. If the bulging progresses without intervention, it can lead to rupture, which poses significant health risks.

6. What is the principal function of the diaphragm in the human body?

- A. Support lateral spines**
- B. Contract during inhalation**
- C. Produce sputum**
- D. Increase lymphatic function**

The principal function of the diaphragm in the human body is to contract during inhalation. This dome-shaped muscle, located at the base of the thoracic cavity, plays a critical role in respiration. When the diaphragm contracts, it moves downward, increasing the volume of the thoracic cavity. This creates a negative pressure gradient that allows air to flow into the lungs. This contraction not only facilitates the intake of oxygen but also aids in the expulsion of carbon dioxide during the process of exhalation when the diaphragm relaxes and returns to its original position. The effectiveness of this muscle is essential for normal breathing, making its contraction during inhalation a key function in the respiratory system. Understanding the role of the diaphragm is fundamental in grasping basic respiratory physiology and how the body maintains optimal gas exchange in the lungs.

7. Which process refers to directing responders to return to their facilities after finishing work at a disaster site?

A. Evacuation

B. Demobilization

C. Reintegration

D. Debriefing

The correct answer is demobilization, which specifically refers to the process of directing responders to return to their facilities after completing their duties at a disaster site. This step is crucial in emergency management as it ensures that all personnel are accounted for and can safely return to their home base to rest, recuperate, and prepare for future assignments. Demobilization typically involves a systematic withdrawal from the incident site, where responders can complete necessary paperwork, conduct equipment checks, and participate in debriefings to discuss their experiences and observations. This process helps maintain operational efficiency and prepares responders for the next phase of their work. Understanding this concept is vital, as it highlights the importance of managing not only the immediate response to a disaster but also the subsequent phases of recovery and support for the responders involved. Timely and organized demobilization contributes to the overall effectiveness of disaster response efforts and ensures responders' well-being.

8. Which heart valve prevents blood from flowing back into the left ventricle after it is ejected into the aorta?

A. Pulmonary valve

B. Aortic valve

C. Tricuspid valve

D. Mitral valve

The aortic valve is crucial in maintaining unidirectional blood flow from the heart to the body. After the left ventricle contracts and ejects blood into the aorta, the aortic valve closes to prevent any backward flow of blood into the ventricle. This closure is essential for ensuring that oxygen-rich blood continues to circulate throughout the body effectively without regurgitating back into the heart. The aortic valve specifically operates during the systolic phase of the cardiac cycle, affecting the efficiency of systemic circulation. When the left ventricle contracts, the pressure inside the ventricle increases, leading the aortic valve to open and blood to flow into the aorta. As the heart relaxes (diastole), the pressure in the ventricle decreases, resulting in the aortic valve closing tightly, thereby preventing blood from flowing back. This mechanism is vital for maintaining proper cardiovascular function and ensuring that sufficient blood reaches the tissues and organs.

9. Which method of ventilation is primarily used in the treatment of critically ill patients with respiratory distress and can prevent the need for endotracheal intubation?

A. BiPAP

B. Continuous Positive Airway Pressure (CPAP)

C. Oxygen Therapy

D. Mechanical Ventilation

The method of ventilation that is primarily used in the treatment of critically ill patients with respiratory distress, which can also prevent the need for endotracheal intubation, is Continuous Positive Airway Pressure (CPAP). CPAP delivers a continuous stream of positive pressure to keep the airways open during both inhalation and exhalation, which is especially beneficial for patients suffering from conditions like congestive heart failure or obstructive sleep apnea. By maintaining this pressure, CPAP helps improve oxygenation and supports the patient's effort to breathe, reducing the work of breathing and minimizing the risk of respiratory failure that might necessitate intubation. This method can be effectively used in a variety of clinical settings, allowing for easier management of patients with acute respiratory distress without resorting to invasive measures whenever possible. In contrast, BiPAP also provides non-invasive ventilation but is designed to offer different levels of pressure for inhalation and exhalation, making it suitable for cases that require more complex respiratory support. Oxygen therapy is critical for treating hypoxia but does not provide the ventilatory support that patients in respiratory distress often require. Mechanical ventilation is an invasive procedure that involves intubation, which is typically used for patients who are unable to maintain their own airway.

10. During labor, what does the term 'crowning' signify?

A. The onset of contractions

B. Delivery of the placenta

C. The fetal head becoming visible at the vaginal opening

D. Reduction in the cervix size

Crowning is a significant event during the labor process that refers to the stage where the fetal head becomes visible at the vaginal opening. This occurs during the second stage of labor when the baby is descending through the birth canal, and it indicates that delivery is imminent. When the fetal head crowns, the widest part of the head has reached the vaginal opening, and the mother may feel a strong urge to push. Understanding this term is essential because it signals to healthcare providers and the birthing team that they need to prepare for the imminent delivery, ensuring a safe environment for both the mother and the baby. This phase is often accompanied by a variety of physical sensations for the expectant mother, signaling that she is nearing the end of her labor.