

# JRCALC Resuscitation Practice Test (Sample)

## Study Guide



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**SAMPLE**

## **Questions**

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- 1. When performing CPR on an adult, how often should you switch rescuers?**
  - A. Every 1 minute**
  - B. Every 2 minutes**
  - C. Every 5 minutes**
  - D. Every 10 minutes**
- 2. What is the primary indication for intubation in a resuscitation scenario?**
  - A. The patient's inability to protect their airway or inadequate ventilation**
  - B. Severe head injury**
  - C. Cardiac arrest only**
  - D. Presence of foreign material in the airway**
- 3. What should be prioritized when performing CPR on a pregnant patient?**
  - A. Maintain high chest compressions**
  - B. Ensure airway management**
  - C. Adjust compression location**
  - D. Administer medications promptly**
- 4. Which of the following rhythms is shockable?**
  - A. Asystole**
  - B. Ventricular Fibrillation (VF)**
  - C. Normal sinus rhythm**
  - D. Sinus bradycardia**
- 5. In CPR, what does the acronym C-A-B stand for?**
  - A. Compressions, Airway, Breathing**
  - B. Cardiac, Action, Breathing**
  - C. Circulation, Assessment, Breathing**
  - D. Control, Advance, Breathing**

- 6. Which of the following is NOT a mechanism of forward blood flow?**
- A. Cardiac pump theory**
  - B. Thoracic theory**
  - C. Lung theory**
  - D. Arterial theory**
- 7. What is the optimal depth of chest compressions for adults during CPR?**
- A. 1-2 inches**
  - B. 2-3 inches**
  - C. 3-4 inches**
  - D. 4-5 inches**
- 8. In a CPR situation involving a pregnant woman, what differs from standard procedure?**
- A. Compression depth is reduced**
  - B. Hand position is altered**
  - C. More rescue breaths are given**
  - D. Less emphasis is placed on chest compressions**
- 9. In what percentage of patients do agonal gasps occur?**
- A. 20%**
  - B. 30%**
  - C. 40%**
  - D. 50%**
- 10. What effect do rescue breaths have on the body during CPR?**
- A. They decrease blood flow to the heart**
  - B. They create positive pressure in the lungs**
  - C. They help to reduce intracranial pressure**
  - D. They facilitate negative pressure for venous return**

## **Answers**

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

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## **Explanations**

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**1. When performing CPR on an adult, how often should you switch rescuers?**

- A. Every 1 minute**
- B. Every 2 minutes**
- C. Every 5 minutes**
- D. Every 10 minutes**

Switching rescuers every 2 minutes during CPR is based on the need to maintain high-quality compressions and minimize fatigue among rescuers. CPR is physically demanding, and rescuers will begin to tire quickly, which can lead to a decrease in the quality of chest compressions. By changing rescuers every 2 minutes, it helps ensure that both rescuers remain effective and can provide continuous, strong compressions without compromising the technique and effectiveness of the life-saving efforts. This interval aligns with the recommended guidelines set forth by organizations such as the American Heart Association and the European Resuscitation Council, which emphasize maintaining high-quality CPR as vital for increasing the chances of survival. In contrast, longer intervals could lead to ineffective compressions as rescuers tire, while too frequent changes might disrupt the rhythm and effectiveness of the process.

**2. What is the primary indication for intubation in a resuscitation scenario?**

- A. The patient's inability to protect their airway or inadequate ventilation**
- B. Severe head injury**
- C. Cardiac arrest only**
- D. Presence of foreign material in the airway**

The primary indication for intubation in a resuscitation scenario is the patient's inability to protect their airway or inadequate ventilation. When a patient cannot maintain an open and clear airway due to unconsciousness, respiratory distress, or significant injury, they are at high risk of airway obstruction or aspiration. Intubation allows healthcare providers to secure the airway, ensuring that it remains open and protected from external obstructions, while also enabling effective ventilation. Inadequate ventilation may arise from several conditions, including respiratory failure, which can occur due to a variety of reasons such as chest trauma, severe asthma, or any circumstance that compromises the respiratory drive. By providing a direct route for ventilation via an endotracheal tube, providers can deliver oxygen more effectively, manage respiratory failure, and reduce the risk of complications. Other options may pertain to specific scenarios related to airway issues or associated conditions, but the broad necessity to protect the airway and ensure adequate ventilation underscores why the primary indication for intubation stands as the inability to do so. This foundational understanding is critical in resuscitation practice, where maintaining an open airway is vital for patient survival.

### 3. What should be prioritized when performing CPR on a pregnant patient?

- A. Maintain high chest compressions
- B. Ensure airway management
- C. Adjust compression location**
- D. Administer medications promptly

In the context of performing CPR on a pregnant patient, adjusting the compression location is crucial due to the physiological changes that occur during pregnancy. As the uterus enlarges, especially in the later stages, it can compress major blood vessels such as the inferior vena cava. This compression can significantly reduce blood return to the heart and ultimately affect cardiac output and the effectiveness of CPR. By modifying the position of chest compressions, typically by shifting the compression location slightly higher and laterally (toward the left side), responders can help alleviate this pressure on the blood vessels, facilitating better circulation during resuscitation efforts. This adjustment helps optimize the effectiveness of compressions, leading to improved outcomes for both the mother and the fetus. Maintaining high chest compressions and ensuring thorough airway management are also important components of CPR, but they do not specifically address the unique anatomical and physiological considerations presented by pregnancy. Similarly, while administering medications is critical in many resuscitation scenarios, the immediate adjustment of the compression location takes precedence to ensure the circulation is as effective as possible for the pregnant patient.

### 4. Which of the following rhythms is shockable?

- A. Asystole
- B. Ventricular Fibrillation (VF)**
- C. Normal sinus rhythm
- D. Sinus bradycardia

Ventricular Fibrillation (VF) is a shockable rhythm because it represents a chaotic electrical activity in the heart that leads to ineffective pumping of blood. The primary goal in the case of VF during a cardiac arrest is to restore a normal rhythm and effective circulation. Applying an electric shock to the chest via a defibrillator can disrupt this disordered electrical activity and potentially allow the heart to regain a normal sinus rhythm. Shockable rhythms are characterized by the presence of organized electrical activity that is amenable to defibrillation. VF falls into this category, as the purpose of defibrillation is to restore coordinated electrical activity to the heart. In contrast, rhythms such as asystole are non-shockable because they indicate a complete lack of electrical activity in the heart. Normal sinus rhythm, while a healthy heartbeat, does not require defibrillation and is not a situation of cardiac arrest. Similarly, sinus bradycardia, which is a slower heart rate, is typically not treated with defibrillation unless it is symptomatic and accompanied by other critical conditions. Thus, VF is clearly the only rhythm listed that qualifies as shockable due to its clinical significance in life-threatening arrhythmias.

**5. In CPR, what does the acronym C-A-B stand for?**

- A. Compressions, Airway, Breathing**
- B. Cardiac, Action, Breathing**
- C. Circulation, Assessment, Breathing**
- D. Control, Advance, Breathing**

The acronym C-A-B in CPR stands for Compressions, Airway, and Breathing. This order emphasizes the critical importance of starting chest compressions immediately when performing CPR on an adult who is unresponsive and not breathing normally. Starting with compressions ensures that blood circulation is prioritized in order to maintain vital organ perfusion. High-quality chest compressions help facilitate blood flow, which is crucial for increasing the chances of survival until advanced medical help arrives. Once compressions are initiated, the next step is to open the airway to allow for effective rescue breaths if they are being given, followed finally by actual breathing support. This sequence—Compressions first—supports the modern CPR guidelines that focus on maintaining circulation before addressing breathing, reflecting a shift from older methods that prioritized airway and breathing first. Understanding this sequence is vital for effective response during a cardiac arrest situation.

**6. Which of the following is NOT a mechanism of forward blood flow?**

- A. Cardiac pump theory**
- B. Thoracic theory**
- C. Lung theory**
- D. Arterial theory**

The correct choice identifies a mechanism of forward blood flow that is not recognized or established in medical physiology. Forward blood flow during cardiopulmonary resuscitation (CPR) is primarily achieved through various means that effectively create pressure gradients within the thoracic cavity to facilitate blood circulation. Cardiac pump theory explains how compressions directly squeeze the heart chambers to eject blood during CPR. Thoracic theory, on the other hand, describes how compressions increase intrathoracic pressure, pushing blood out of the heart and into circulation. The lung theory is less commonly referred to in this context, but it relates to the role of the lungs in ventilation and perfusion balance during CPR efforts. In contrast, while "arterial theory" might suggest a focus on arteries' role in blood flow, it is not established as a specific mechanism influencing forward flow during CPR. It does not reflect a recognized physiological process within the context of resuscitation techniques and practices, making this choice the appropriate one to identify as not being a mechanism of forward blood flow.

**7. What is the optimal depth of chest compressions for adults during CPR?**

- A. 1-2 inches
- B. 2-3 inches**
- C. 3-4 inches
- D. 4-5 inches

The optimal depth of chest compressions for adults during CPR is between 2 to 2.4 inches (5 to 6 cm). This depth is critical as it allows for adequate blood flow during the compressions while minimizing the risk of injury. Compressions that are too shallow may not effectively circulate blood, which can lead to a higher chance of negative outcomes for the patient. By compressing to a depth in the range of 2 to 2.4 inches, rescuers create enough pressure in the chest cavity to facilitate blood flow to vital organs while adhering to guidelines established by organizations such as the American Heart Association. This depth strikes a balance between being sufficiently deep to ensure effectiveness and avoiding excessive force that could cause injury. A depth of 1-2 inches is insufficient to generate adequate blood flow, while depths exceeding 2.4 inches may increase the risk of injury to the thoracic organs and the ribcage.

**8. In a CPR situation involving a pregnant woman, what differs from standard procedure?**

- A. Compression depth is reduced
- B. Hand position is altered**
- C. More rescue breaths are given
- D. Less emphasis is placed on chest compressions

In a CPR situation involving a pregnant woman, one of the key differences in the procedure is the altered hand position for chest compressions. When performing CPR on a pregnant person, particularly when they are in later stages of pregnancy, the location of the placenta must be considered. The standard hand position during chest compressions is typically in the center of the chest. However, in a pregnant woman, especially if she is in the third trimester, the hand position may be adjusted slightly higher on the sternum to ensure effective compressions while also minimizing potential harm to the uterus and fetus. This modification aims to maintain the effectiveness of compressions while considering the anatomical differences and ensuring the safety of both the mother and child during the resuscitation process. The adjustments in hand positioning are primarily to maintain the proper force against the heart while preventing any undue pressure on the abdomen. Other considerations in a CPR scenario with a pregnant woman would involve ensuring that she is slightly tilted to one side, typically to the left, to relieve pressure from the major blood vessels, promoting better blood flow. However, the key difference highlighted here focuses specifically on the adjustment of hand position during the chest compressions.

**9. In what percentage of patients do agonal gasps occur?**

- A. 20%
- B. 30%
- C. 40%**
- D. 50%

Agonal gasps are infrequent, labored breathing patterns that can occur in a patient who is in cardiac arrest. Studies indicate that agonal gasps can be observed in approximately 40% of patients at the time of their cardiac arrest. They are a crucial sign because they can be mistakenly interpreted by bystanders as effective breathing, potentially delaying the initiation of CPR. Recognizing that agonal gasps are a sign of severe distress and lack of effective ventilation is important for prompt resuscitation efforts. The percentage highlights the prevalence of this phenomenon, emphasizing the need for awareness among caregivers and bystanders to ensure timely and appropriate intervention in emergencies. Hence, the answer of 40% provides a critical understanding of how frequently agonal gasps appear in such serious situations.

**10. What effect do rescue breaths have on the body during CPR?**

- A. They decrease blood flow to the heart
- B. They create positive pressure in the lungs**
- C. They help to reduce intracranial pressure
- D. They facilitate negative pressure for venous return

Rescue breaths during CPR serve a critical function in oxygenating the lungs and, by extension, the blood. When rescue breaths are administered, they introduce air into the lungs, which creates positive pressure. This positive pressure facilitates the delivery of oxygen directly into the alveoli, allowing for gas exchange to occur, even in a non-beating heart. By maintaining adequate oxygen levels in the blood, rescue breaths can support vital organs, including the brain, during cardiac arrest scenarios. This is essential as the primary goal of CPR is to restore a reasonable level of blood circulation and oxygenation until advanced medical help can take over. Thus, the creation of positive pressure plays a pivotal role in maximizing the effectiveness of CPR.