

PEDIATRIC ADVANCED LIFE SUPPORT (PALS) PRACTICE TEST (SAMPLE)

STUDY GUIDE



Prepare with structure. Pass with confidence



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Table of Contents

Copyright	1
Table of Contents	2
Introduction	3
How to Use This Guide	4
Questions	5
Answers	8
Explanations	10
Next Steps	16

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Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

Remember: successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

How to Use This Guide

This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:

1. Start with a Diagnostic Review

Skim through the questions to get a sense of what you know and what you need to focus on. Your goal is to identify knowledge gaps early.

2. Study in Short, Focused Sessions

Break your study time into manageable blocks (e.g. 30 – 45 minutes). Review a handful of questions, reflect on the explanations.

3. Learn from the Explanations

After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.

4. Track Your Progress

Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.

5. Simulate the Real Exam

Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.

6. Repeat and Review

Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning. Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.

There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly, adapt the tips above to fit your pace and learning style. You've got this!

Questions

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- 1. What is the initial dose of adenosine for treating SVT in children?**
 - A. 0.05 mg/kg
 - B. 0.1 mg/kg
 - C. 0.2 mg/kg
 - D. 0.3 mg/kg
- 2. When is it appropriate to begin CPR if you do not feel a pulse in a child?**
 - A. After checking for breathing
 - B. Within 10 seconds
 - C. After assessing for signs of shock
 - D. Only upon reaching the emergency room
- 3. Which of the following can lower hyperkalemia quickly?**
 - A. Insulin
 - B. Albuterol (salbutamol)
 - C. Dextrose
 - D. Lactated Ringer's solution
- 4. The laryngeal mask is typically placed over which anatomical structure?**
 - A. Vocal cords
 - B. Pyriform fossa
 - C. Epiglottis
 - D. Cricoid cartilage
- 5. Which medication should not be used in a pediatric patient for bradycardia if caused by increased vagal tone?**
 - A. Adrenaline
 - B. Atropine
 - C. Adenosine
 - D. Calcium channel blockers
- 6. Recognizing the cause of bradycardia in children can determine what?**
 - A. The need for CPR
 - B. The type of medication to administer
 - C. The long-term prognosis
 - D. Whether to refer to a specialist

7. What is the normal range for mixed venous oxygen saturation (SvO₂) if arterial O₂ saturation is 100%?
- A. 65-70%
 - B. 70-75%
 - C. 75-80%
 - D. 80-85%
8. What is the condition characterized by no conduction through the atrioventricular (AV) node?
- A. First-degree AV block
 - B. Second-degree AV block
 - C. Third-degree AV block
 - D. Bundle branch block
9. What is the target end-tidal CO₂ during CPR in a pediatric patient?
- A. 25 mmHg
 - B. 35 mmHg
 - C. 45 mmHg
 - D. 55 mmHg
10. What is the most common reason for the chest not rising with each breath during CPR?
- A. Not enough pressure applied
 - B. Airway is not clear
 - C. Too much oxygen delivered
 - D. Poor positioning of the patient

Answers

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

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Explanations

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1. What is the initial dose of adenosine for treating SVT in children?

- A. 0.05 mg/kg
- B. 0.1 mg/kg**
- C. 0.2 mg/kg
- D. 0.3 mg/kg

Adenosine is commonly used in the emergency treatment of supraventricular tachycardia (SVT) in children. The initial dose recommended for adenosine administration is 0.1 mg/kg, which is typically administered as a rapid intravenous push followed by a saline flush. This dose is effective for quickly halting the racing heart rhythm associated with SVT, and if necessary, it can be followed by a second dose of 0.2 mg/kg if the initial dose is ineffective. The rationale behind starting at this particular dose is based on the pharmacological properties of adenosine, which can cause a transient AV node block, effectively resetting the heart's electrical conduction system back to normal rhythm in appropriate situations. Using the correct dosing is crucial for balancing efficacy with safety, as higher doses may lead to significant adverse effects without improving efficacy. The other options represent doses that are either too low or too high compared to the established guidelines for pediatric dosing of adenosine in the treatment of SVT. Proper adherence to dosing recommendations is critical in ensuring effective treatment while minimizing potential complications.

2. When is it appropriate to begin CPR if you do not feel a pulse in a child?

- A. After checking for breathing
- B. Within 10 seconds**
- C. After assessing for signs of shock
- D. Only upon reaching the emergency room

Beginning cardiopulmonary resuscitation (CPR) promptly is crucial when there is no detectable pulse in a child. The recommendation to initiate CPR within 10 seconds of identifying the absence of a pulse is based on the need to act swiftly to prevent irreversible brain and organ damage that can occur due to lack of blood flow and oxygen. In pediatric emergencies, every second matters. If a pulse cannot be felt, it's essential to quickly check other signs of circulation, like respiration, but if those signs are also absent or if the child is unresponsive, starting CPR immediately is vital. Thus, initiating abdominal compressions and ventilations without delay is the most effective course of action to sustain life until emergency services arrive. The other options do not emphasize the urgency needed in this scenario. Checking for breathing before starting CPR may cause delays that can be harmful, and assessing for signs of shock could also prolong the response time. Waiting until reaching the emergency room is not appropriate, as immediate action is essential outside of a hospital setting where resuscitative efforts can begin right away.

3. Which of the following can lower hyperkalemia quickly?

- A. Insulin
- B. Albuterol (salbutamol)**
- C. Dextrose
- D. Lactated Ringer's solution

Albuterol (salbutamol) is a bronchodilator that can indeed lower potassium levels in the blood, making it useful in the management of hyperkalemia. It works by stimulating β_2 -adrenergic receptors, leading to an increase in potassium uptake by the cells, which can help decrease serum potassium levels. This effect is particularly valuable in acute scenarios where rapid intervention is necessary. While other options like insulin and dextrose are related to the treatment of hyperkalemia—since insulin also promotes cellular uptake of potassium, and dextrose is often administered alongside insulin to prevent hypoglycemia—the focus here on albuterol illustrates its unique pharmacological properties as a fast-acting treatment in certain contexts. Lactated Ringer's solution, on the other hand, is primarily used for fluid resuscitation and does not directly address hyperkalemia. In summary, albuterol's ability to act quickly to promote potassium uptake into cells makes it a viable option for managing hyperkalemia in urgent care settings.

4. The laryngeal mask is typically placed over which anatomical structure?

- A. Vocal cords
- B. Pyriform fossa**
- C. Epiglottis
- D. Cricoid cartilage

The laryngeal mask airway (LMA) is designed to be positioned over the laryngeal inlet, which area includes the pyriform fossa. The pyriform fossa is a recess found on each side of the larynx, adjacent to the epiglottis, and it serves as an anatomical landmark during the placement of the LMA. When correctly placed, the cuff of the LMA sits in the hypopharynx, sealing around the laryngeal opening, allowing for ventilation without interfering with the vocal cords. The LMA is specifically designed to provide a more effective airway management tool compared to other devices while minimizing trauma to the airway and providing a good seal for artificial ventilation. A proper understanding of the anatomy involved, particularly the position relative to the pyriform fossa, is crucial for successful placement and effective ventilation management in pediatric patients. The other anatomical structures listed do not serve as appropriate landing zones for a laryngeal mask: the vocal cords are protected by the structures surrounding the inlet, while the cricoid cartilage is located below the laryngeal inlet and contributes to the structural integrity of the airway but is not directly related to LMA placement. The epiglottis, while

5. Which medication should not be used in a pediatric patient for bradycardia if caused by increased vagal tone?

- A. Adrenaline
- B. Atropine
- C. Adenosine**
- D. Calcium channel blockers

Adenosine is generally not indicated for treating bradycardia caused by increased vagal tone in pediatric patients. Instead, it is primarily used for the treatment of certain types of tachycardia, particularly supraventricular tachycardia (SVT), where it acts to slow conduction through the atrioventricular (AV) node. When bradycardia occurs as a result of increased vagal tone, the primary treatment involves using medications that increase heart rate, such as atropine, which counteracts vagal influence on the heart. Using adenosine in a case of bradycardia from high vagal tone could potentially worsen the bradycardia or lead to undesirable effects because it may influence heart conduction in inappropriate ways when the heart is already beating slowly. Thus, it's important to select medications that support improved heart rate rather than those that might slow it further or affect conduction pathways utilized in bradycardia management stemming from vagal activity.

6. Recognizing the cause of bradycardia in children can determine what?

- A. The need for CPR
- B. The type of medication to administer**
- C. The long-term prognosis
- D. Whether to refer to a specialist

Identifying the cause of bradycardia in children is crucial as it directly influences the treatment approach, including the specific medication that may be appropriate. Bradycardia can arise from various underlying conditions such as electrolyte imbalances, hypoxia, or medication effects, and recognizing these can guide clinicians in choosing the right pharmacological interventions. For example, if bradycardia is due to hyperkalemia, administering calcium gluconate or insulin and glucose will be necessary to correct the potassium levels and improve heart rate. Understanding the etiology ensures a targeted response, enhancing the effectiveness of treatment and potentially stabilizing the child's condition more efficiently. This focus on medication appropriateness is integral to a successful management plan for pediatric bradycardia.

7. What is the normal range for mixed venous oxygen saturation (SvO2) if arterial O2 saturation is 100%?

- A. 65-70%
- B. 70-75%**
- C. 75-80%
- D. 80-85%

The normal range for mixed venous oxygen saturation (SvO2) in a healthy individual is typically around 70% to 75%. When arterial oxygen saturation is at 100%, it indicates that the blood is fully saturated with oxygen as it leaves the lungs. However, the SvO2 reflects the balance between oxygen delivery and utilization by the tissues. In healthy individuals, this balance means that a proportion of the oxygen carried in the arteries is extracted by the body's tissues, leading to a lower SvO2 value. A mixed venous oxygen saturation within the range of 70% to 75% signifies that while the arterial blood is oxygen-rich, the body's tissues still consume a significant amount of that oxygen for metabolic processes. Values outside this range, either lower or higher, could indicate underlying conditions. For instance, lower SvO2 might suggest increased oxygen demand, poor perfusion, or inadequate oxygen delivery, while a higher SvO2 could indicate reduced metabolism in tissues or conditions like sepsis where the oxygen consumption is compromised. Thus, the choice that indicates a normal range of 70-75% aligns with physiological expectations, making it the correct answer for this question.

8. What is the condition characterized by no conduction through the atrioventricular (AV) node?

- A. First-degree AV block
- B. Second-degree AV block
- C. Third-degree AV block**
- D. Bundle branch block

The condition characterized by no conduction through the atrioventricular (AV) node is third-degree AV block, also known as complete heart block. In this situation, there is a complete dissociation between the atria and the ventricles. This means that impulses generated in the atria cannot reach the ventricles due to a failure of conduction through the AV node. As a result, the atria continue to contract independently, usually at their intrinsic rate, while the ventricles will also beat independently, often at a much slower rate, potentially leading to significant hemodynamic instability. In contrast, first-degree AV block allows all atrial impulses to be conducted to the ventricles, albeit with a prolonged conduction time. Second-degree AV block also permits some atrial impulses to be conducted, but there is an intermittent failure of conduction, which results in some dropped beats. A bundle branch block is not a type of AV block but rather a specific conduction delay in the left or right bundle branches, affecting the ventricles, but does not involve the AV node directly.

9. What is the target end-tidal CO₂ during CPR in a pediatric patient?

- A. 25 mmHg
- B. 35 mmHg**
- C. 45 mmHg
- D. 55 mmHg

The target end-tidal CO₂ during CPR in a pediatric patient is typically around 35 mmHg. This value is significant as it helps to gauge the effectiveness of chest compressions and overall perfusion during resuscitation efforts. Measuring the end-tidal CO₂ enables healthcare providers to assess how well the patient's lungs are functioning in terms of eliminating carbon dioxide—a byproduct of cellular metabolism. During effective CPR, a higher end-tidal CO₂ level suggests that blood is being circulated to the lungs and that the heart and lungs are engaged in gas exchange, thereby improving the chances of successful resuscitation. A target of 35 mmHg is ideal because it reflects the balance between adequate ventilation and circulation. Lower levels can indicate poor perfusion, inadequate ventilation, or ineffective compressions, while higher levels may suggest airway obstruction or hyperventilation, which can occur if too much air is being pushed into the lungs during CPR. Hence, aiming for around 35 mmHg provides a practical metric for assessing the quality of CPR being performed on pediatric patients.

10. What is the most common reason for the chest not rising with each breath during CPR?

- A. Not enough pressure applied
- B. Airway is not clear**
- C. Too much oxygen delivered
- D. Poor positioning of the patient

The most common reason for the chest not rising with each breath during CPR is that the airway is not clear. When performing CPR, particularly when providing rescue breaths, it is crucial that the airway is unobstructed so that air can enter the lungs effectively. If the airway is blocked—due to tongue obstruction, foreign bodies, or other issues—air cannot flow into the thoracic cavity, leading to ineffective ventilation and the chest not rising. Ensuring that the airway is patent involves proper positioning, such as tilting the head and lifting the chin to help open the airway. This is a key step in the CPR process, as effective ventilation requires an unobstructed pathway to deliver air to the lungs. Without a clear airway, the positive pressure generated during rescue breathing will not result in proper chest rise and adequate ventilation, which are critical for oxygenation during cardiac arrest situations.

Next Steps

Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.

As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.

If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at hello@examzify.com.

Or visit your dedicated course page for more study tools and resources:

<https://pediatricadvancedlifesupport.examzify.com>

We wish you the very best on your exam journey. You've got this!

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