

Cardiac Vascular Nursing Certification Practice Exam (Sample)

Study Guide



Everything you need from our exam experts!

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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 recommended regarding aspirin use in patients with uncontrolled hypertension?**
 - A. It is effective and often recommended**
 - B. It should be combined with other treatments**
 - C. It should be avoided due to risk of hemorrhagic stroke**
 - D. It is safe for use in all hypertension cases**

- 2. Which cardiac event does the Q wave on an ECG indicate?**
 - A. Beginning of atrial depolarization**
 - B. End of ventricular repolarization**
 - C. Beginning of ventricular depolarization**
 - D. Complete atrial contraction**

- 3. What is the recommended timeframe for performing PCI in STEMI patients?**
 - A. 30 minutes**
 - B. 60 minutes**
 - C. 90 minutes**
 - D. 120 minutes**

- 4. Which undesirable effect can occur in patients taking beta-blockers?**
 - A. Corneal deposits**
 - B. Asthma exacerbation**
 - C. Severe constipation**
 - D. Angioedema**

- 5. What leads are associated with left anterior descending (LAD) artery occlusion?**
 - A. V1, V2**
 - B. V3, V4**
 - C. II, III, aVF**
 - D. I, aVL**

- 6. Which of the following is NOT one of the 5 A's of cessation guidelines?**
- A. Ask**
 - B. Advise**
 - C. Affirm**
 - D. Arrange**
- 7. What conditions might be ruled out if S3 is not present?**
- A. Heart failure**
 - B. Myocardial infarction**
 - C. Valvular disease**
 - D. Normal aging**
- 8. When evaluating heart sounds, which finding is always considered adverse?**
- A. S3 heart sound**
 - B. S4 heart sound**
 - C. Both S3 and S4 heart sounds**
 - D. Heart murmurs**
- 9. Which of the following is NOT a domain of learning?**
- A. Cognitive**
 - B. Affective**
 - C. Physical**
 - D. Psychomotor**
- 10. What type of physical activity is recommended by JNC8 for hypertension management?**
- A. Weight lifting**
 - B. Yoga**
 - C. Aerobic physical activity**
 - D. Pilates**

Answers

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

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Explanations

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1. What is recommended regarding aspirin use in patients with uncontrolled hypertension?

- A. It is effective and often recommended**
- B. It should be combined with other treatments**
- C. It should be avoided due to risk of hemorrhagic stroke**
- D. It is safe for use in all hypertension cases**

In patients with uncontrolled hypertension, the use of aspirin is approached with caution due to the potential risk of hemorrhagic stroke. Uncontrolled hypertension means that blood pressure levels are significantly elevated and may lead to complications such as cerebrovascular accidents (strokes), both ischemic and hemorrhagic. Aspirin acts as an antiplatelet agent, which is beneficial in preventing thrombotic events, but in individuals whose blood pressure is not well controlled, the likelihood of a hemorrhagic stroke (bleeding in the brain) increases. High blood pressure can intensify the risk of bleeding that might occur as a consequence of aspirin's antiplatelet effects. Thus, it is generally recommended to avoid the use of aspirin in such cases until the blood pressure is adequately controlled. Combining aspirin with other treatments can be advantageous in some scenarios but is not appropriate if the underlying hypertension remains unstable. Additionally, while aspirin is a cornerstone treatment in various cardiovascular preventive measures, it is not regarded as universally safe across all cases of hypertension, particularly in those patients whose blood pressure is poorly managed. This context underscores the consideration given to the individual patient's stability and risk factors when making decisions about aspirin therapy in the context of hypertension.

2. Which cardiac event does the Q wave on an ECG indicate?

- A. Beginning of atrial depolarization**
- B. End of ventricular repolarization**
- C. Beginning of ventricular depolarization**
- D. Complete atrial contraction**

The Q wave on an ECG represents the beginning of ventricular depolarization. This wave is the initial negative deflection that occurs following the P wave, which indicates atrial depolarization. Ventricular depolarization involves the electrical activation of the ventricles, leading to their contraction to pump blood to the lungs and the rest of the body. The presence of the Q wave is essential for identifying the onset of this critical phase of the cardiac cycle. In understanding ECG readings, it is important to recognize that the Q wave is followed by the R wave (a positive deflection) and often a subsequent S wave, forming the QRS complex. This overall complex indicates not just the depolarization of the ventricles, but it is also a key diagnostic element in assessing potential issues such as myocardial infarctions, where the Q wave may become abnormal. Other options refer to different phases of the cardiac cycle. For instance, atrial depolarization occurs during the P wave, while ventricular repolarization corresponds to the T wave. Complete atrial contraction is evidenced by the mechanical events that follow the P wave but is not represented specifically by the Q wave on an ECG.

3. What is the recommended timeframe for performing PCI in STEMI patients?

- A. 30 minutes**
- B. 60 minutes**
- C. 90 minutes**
- D. 120 minutes**

The recommended timeframe for performing percutaneous coronary intervention (PCI) in patients with ST-elevation myocardial infarction (STEMI) is within 90 minutes of hospital arrival. This guideline is critical because timely intervention can significantly improve patient outcomes by restoring blood flow to the heart muscle, thus minimizing damage during an active myocardial infarction. The 90-minute window is based on several clinical studies and guidelines that emphasize the importance of rapid reperfusion therapy. The sooner the blockage in the coronary artery can be alleviated, the less myocardial tissue is likely to be irreversibly damaged. In STEMI cases, where every minute counts, the goal is to complete the PCI procedure swiftly—ideally within the first 90 minutes after the patient arrives at the hospital. This timeframe aligns with the recommendations from the American College of Cardiology (ACC) and American Heart Association (AHA), which advocate for expedited treatment protocols for STEMI patients to optimize recovery and long-term health prospects. Delaying treatment beyond this timeframe can lead to worsening heart function and increased chances of complications.

4. Which undesirable effect can occur in patients taking beta-blockers?

- A. Corneal deposits**
- B. Asthma exacerbation**
- C. Severe constipation**
- D. Angioedema**

Beta-blockers are commonly prescribed to manage various cardiovascular conditions, but they have the potential to cause respiratory complications, particularly in patients with a history of asthma or reactive airway diseases. The mechanism by which beta-blockers can exacerbate asthma involves their action on beta-2 adrenergic receptors, which are primarily found in the bronchial smooth muscle. By blocking these receptors, beta-blockers can cause bronchoconstriction, leading to difficulty in breathing and worsening asthma symptoms. In contrast, corneal deposits are more associated with certain medications like chloroquine and tamoxifen rather than beta-blockers. Severe constipation is not a typical side effect of beta-blockers, as they do not significantly affect gut motility. Angioedema, which involves swelling of the deeper layers of the skin, is more commonly associated with ACE inhibitors rather than beta-blockers. Thus, the potential for asthma exacerbation is a well-recognized, undesirable effect specifically associated with beta-blocker therapy.

5. What leads are associated with left anterior descending (LAD) artery occlusion?

A. V1, V2

B. V3, V4

C. II, III, aVF

D. I, aVL

The leads that are typically associated with occlusion of the left anterior descending (LAD) artery are V3 and V4. The LAD supplies the anterior wall of the heart, and when there is an occlusion in this artery, it often results in ST segment changes or Q waves in these leads. Leads V3 and V4, located on the chest wall overlying the anterior aspect of the left ventricle, are most directly influenced by LAD perfusion. Therefore, when an occlusion occurs, these leads will manifest the characteristic electrocardiographic (ECG) changes associated with anterior wall myocardial ischemia or infarction. The other options represent leads that correlate with different regions of the heart. For instance, leads V1 and V2 are more indicative of the right coronary artery's influence, while leads II, III, and aVF pertain to the inferior wall, often reflecting coronary artery issues in the right coronary artery or circumflex artery. Leads I and aVL are indicative of lateral wall ischemia, primarily related to the circumflex artery.

6. Which of the following is NOT one of the 5 A's of cessation guidelines?

A. Ask

B. Advise

C. Affirm

D. Arrange

The correct answer is "Affirm" because the 5 A's of cessation guidelines are a set of practical steps designed to help healthcare providers assist patients in quitting smoking. These steps include: 1. **Ask** - Involves inquiring about the patient's tobacco use. 2. **Advise** - Entails giving clear advice about the benefits of quitting and encouraging the patient to do so. 3. **Assess** - Involves determining the patient's readiness to quit. 4. **Assist** - Refers to providing help by discussing cessation methods and offering support. 5. **Arrange** - Entails scheduling follow-up appointments to support the ongoing cessation efforts. "Affirm" is not included in this guideline and does not align with the established steps aimed at facilitating smoking cessation. Understanding these distinctions is crucial for applying effective tobacco cessation strategies in clinical practice.

7. What conditions might be ruled out if S3 is not present?

- A. Heart failure**
- B. Myocardial infarction**
- C. Valvular disease**
- D. Normal aging**

The absence of an S3 heart sound can help in ruling out heart failure, particularly congestive heart failure. The S3 heart sound, often referred to as a "ventricular gallop," occurs during the rapid filling phase of the ventricles, which is commonly associated with the increased volume and pressure overload seen in heart failure. In a healthy or well-functioning heart, especially in patients without heart failure, the S3 sound may not be present. Therefore, if S3 is absent upon auscultation, it suggests that the ventricles are not experiencing the kind of overload that would typically contribute to heart failure signs and symptoms. In contrast, myocardial infarction, valvular disease, and normal aging can exist with or without the presence of an S3 heart sound. Myocardial infarctions can lead to various heart sounds depending on the severity and complications of the heart attack. Valvular disease can also present with different auscultatory findings, including new or altered murmurs, and may not specifically correlate with the S3 sound. Normal aging itself can lead to changes in heart sounds, including the potential introduction of an S3 in some older adults without heart failure, reflecting changes in the compliance of the ventricles. Thus,

8. When evaluating heart sounds, which finding is always considered adverse?

- A. S3 heart sound**
- B. S4 heart sound**
- C. Both S3 and S4 heart sounds**
- D. Heart murmurs**

The S4 heart sound, also known as a "late diastolic" sound, is typically associated with conditions where the heart is under increased workload or is experiencing stiffness in the left ventricle, such as hypertensive heart disease, aortic stenosis, or ischemic heart disease. It indicates that the left atrium is contracting against a stiff or hypertrophied ventricle, which may reflect an underlying pathology. In contrast, the S3 heart sound, often referred to as a "physiological" sound, can be heard in healthy individuals, particularly in younger individuals or athletes, and may be benign. Heart murmurs can range widely in significance from benign to pathological, depending on characteristics like timing, location, and associated symptoms. Understanding the context of these heart sounds is crucial for proper assessment and management. S4's correlation with myocardial stiffness serves as a red flag in evaluating cardiac function, marking it as an adverse finding in clinical practice.

9. Which of the following is NOT a domain of learning?

- A. Cognitive
- B. Affective
- C. Physical**
- D. Psychomotor

Understanding the domains of learning is essential in the context of nursing and education. The three established domains are cognitive, affective, and psychomotor. Each of these domains addresses different areas of learning: - The cognitive domain involves knowledge and mental skills, focusing on intellectual capabilities. It encompasses the process of learning facts, concepts, and themes, leading to thoughtful analysis and the application of knowledge. - The affective domain relates to emotions, attitudes, and values. It involves the development of feelings, motivation, and responses to various experiences, emphasizing the importance of how individuals engage with information on an emotional level. - The psychomotor domain refers to physical skills and the ability to use motor skills to perform tasks. It involves the coordination of physical abilities and the manual dexterity required to carry out specific actions or procedures. In contrast, "physical" is not recognized as a distinct domain of learning in this context. While it could be loosely associated with aspects of the psychomotor domain, it does not encompass the broader, structured framework that the other three domains represent in educational theory and practice. Therefore, the identification of "physical" as not being a domain of learning reflects a clear understanding of how educational frameworks categorize different learning experiences and objectives.

10. What type of physical activity is recommended by JNC8 for hypertension management?

- A. Weight lifting
- B. Yoga
- C. Aerobic physical activity**
- D. Pilates

Aerobic physical activity is recommended by the Eighth Joint National Committee (JNC8) for hypertension management due to its benefits in improving cardiovascular health and reducing blood pressure levels. Engaging in regular aerobic exercises, such as walking, jogging, cycling, or swimming, promotes cardiovascular fitness by enhancing the heart's efficiency and promoting better circulation. This type of exercise helps to lower systolic and diastolic blood pressure, which is particularly important for individuals with hypertension. While other forms of physical activity, such as weight lifting, yoga, and Pilates, can offer health benefits, they do not primarily target blood pressure reduction to the same extent as aerobic exercises. Weight lifting primarily builds muscle strength and endurance; yoga may improve flexibility and stress management, and Pilates focuses on core strength and stability. However, they are not the most effective modalities specifically for hypertension management when compared to regular aerobic activity.

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://cardiovascularnursing.examzify.com>

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

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