

DAVIES VASCULAR TECHNOLOGY (VT) PRACTICE TEST (SAMPLE)

STUDY GUIDE



**SAMPLE STUDY GUIDE
WITH LIMITED QUESTIONS**

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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. After catheterization in a cardiac patient, what is a probable cause for a pulsatile mass in the groin?**
 - A. Hematoma
 - B. Pseudoaneurysm of the femoral artery
 - C. Venous thrombosis
 - D. Infection at the catheter site

- 2. The vibration felt while palpating pulses is referred to as:**
 - A. A thrill
 - B. A bruit
 - C. A murmur
 - D. A pulsation

- 3. What does the abbreviation TIA stand for?**
 - A. Transient Ischemic Attack
 - B. Transient Inflammatory Aneurysm
 - C. Treatment Induced Anoxia
 - D. Tissue Injury Assessment

- 4. What parameter is NOT usually assessed during exercise testing?**
 - A. Time required for recovery
 - B. Length of exercise time
 - C. Thigh-to-ankle index changes
 - D. Magnitude of pressure drop

- 5. Which of the following is NOT a common feature of renal allograft rejection?**
 - A. Increased allograft size
 - B. Increased cortical echogenicity
 - C. Decreased flow resistance in parenchymal arteries
 - D. Increased prominence of renal pyramids

- 6. Which of the following is a major branch of the external carotid artery (ECA)?**
- A. Superficial temporal artery
 - B. Basilar artery
 - C. Internal jugular vein
 - D. Coronary artery
- 7. Peripheral resistance increases with which of the following?**
- A. Decreased blood viscosity
 - B. Greater vessel length
 - C. Larger vessel diameter
 - D. Increased blood temperature
- 8. A lack of venous response to compression in a Doppler study indicates which of the following?**
- A. Suspicion of thrombosis
 - B. High venous pressure
 - C. Sign of normality
 - D. Potential valvular dysfunction
- 9. What are the typical settings for venous color flow imaging of the lower extremities?**
- A. High PRF/scale settings
 - B. Settings used for arterial scans
 - C. Low PRF/scale settings
 - D. Standard settings across all modalities
- 10. Which statement accurately describes the characteristics of venous ulcers?**
- A. They are usually painful and located near the foot
 - B. They are located proximal to the medial malleolus and usually not painful
 - C. They are treated with surgical intervention
 - D. They manifest as tissue necrosis

Answers

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

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Explanations

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1. After catheterization in a cardiac patient, what is a probable cause for a pulsatile mass in the groin?

- A. Hematoma
- B. Pseudoaneurysm of the femoral artery**
- C. Venous thrombosis
- D. Infection at the catheter site

The presence of a pulsatile mass in the groin following catheterization in a cardiac patient is most likely indicative of a pseudoaneurysm of the femoral artery. This condition arises when there is a break in the arterial wall (often due to trauma from the catheterization), causing blood to escape into the surrounding tissue but still remain contained within a wall of tissue, which results in a pulsatile mass. Pseudoaneurysms can occur at the site of vascular access, particularly in the femoral artery, due to complications such as improper technique, high puncture, or anticoagulation during procedures. The distinguishing characteristic of a pseudoaneurysm is the pulsation, which correlates with the heartbeat, and this pulsatile nature differentiates it from other possible complications. In contrast, while a hematoma can also form after catheterization, it typically presents as a non-pulsatile swell or bruise rather than a pulsatile mass, as it is the result of blood accumulation without the arterial wall structure containing the blood. Venous thrombosis presents with swelling and pain rather than a pulsatile mass, and infection at the catheter site may manifest with redness, warmth, and possibly drainage but does not create a pulsatile mass. Thus,

2. The vibration felt while palpating pulses is referred to as:

- A. A thrill**
- B. A bruit
- C. A murmur
- D. A pulsation

The sensation of vibration felt while palpating pulses is known as a thrill. A thrill is typically associated with increased turbulence in blood flow, which can occur in conditions such as arteriovenous fistulas or significant stenosis in a vessel. When a thrill is palpated over an arterial pulse, it indicates that there is heightened blood flow, often due to an underlying pathology affecting the vessel. In contrast, a bruit refers to an abnormal sound created by turbulent blood flow within a vessel, typically heard through a stethoscope rather than felt. Similarly, a murmur is a sound produced by turbulent blood flow across heart valves and is also detected audibly, not through palpation. Lastly, a pulsation is simply the rhythmic expansion and contraction felt at an artery, typically associated with the heartbeat, but does not convey the same sense of vibration associated with a thrill. Therefore, the term "thrill" accurately captures the specific tactile sensation being described.

3. What does the abbreviation TIA stand for?

- A. Transient Ischemic Attack**
- B. Transient Inflammatory Aneurysm
- C. Treatment Induced Anoxia
- D. Tissue Injury Assessment

The abbreviation TIA stands for Transient Ischemic Attack. This term is significant in the context of vascular health and neurology because a TIA is often described as a temporary episode of neurological dysfunction caused by a brief interruption in blood supply to the brain. It is essential to recognize that while a TIA may resolve quickly and may not cause permanent damage, it is a critical warning sign indicating a higher risk of future strokes. Recognizing and addressing the underlying risk factors contributing to TIAs can lead to preventive strategies to manage potential future cerebrovascular events. Understanding this concept is crucial for those studying vascular technology and related medical fields, as timely intervention can greatly improve patient outcomes.

4. What parameter is NOT usually assessed during exercise testing?

- A. Time required for recovery
- B. Length of exercise time
- C. Thigh-to-ankle index changes**
- D. Magnitude of pressure drop

In the context of exercise testing, the thigh-to-ankle index changes are not typically assessed as a parameter. This index is primarily utilized in the evaluation of peripheral artery disease (PAD) under resting conditions to compare blood pressure in the thigh versus the ankle and may not be the focus during dynamic exercise testing. Exercise testing primarily aims to assess how well the cardiovascular system responds to physical stress, evaluating parameters such as the time required for recovery, the length of exercise time, and the magnitude of pressure drop during and after physical activity. These measurements help in identifying the presence and severity of vascular issues and give insights into a patient's functional capacity and hemodynamic response during exercise. Thus, while other parameters are critical in understanding the patient's response to exercise, changes in the thigh-to-ankle index do not play a role during these assessments, particularly because the index is an indicator measured at rest rather than during exertion.

5. Which of the following is NOT a common feature of renal allograft rejection?

- A. Increased allograft size
- B. Increased cortical echogenicity
- C. Decreased flow resistance in parenchymal arteries**
- D. Increased prominence of renal pyramids

In the context of renal allograft rejection, understanding the typical features observed during imaging and clinical assessments is crucial. Increased allograft size is often observed due to inflammation and edema associated with rejection. This swelling can lead to noticeable changes in the size of the transplanted kidney. Increased cortical echogenicity is another common finding in renal allograft rejection. This occurs due to inflammatory changes and cellular infiltration, making the renal cortex appear brighter on ultrasound. Increased prominence of renal pyramids can also occur during rejection. This is typically due to changes in the kidney's internal architecture resulting from the rejection process. The correct answer, which is decreased flow resistance in parenchymal arteries, does not align with the expected parameters during an episode of renal allograft rejection. Typically, during rejection, one would see increased resistive indices due to vascular changes and impaired perfusion, which leads to increased flow resistance rather than a decrease. Therefore, in renal allograft rejection, decreased flow resistance is not a common feature and reflects an atypical response.

6. Which of the following is a major branch of the external carotid artery (ECA)?

- A. Superficial temporal artery**
- B. Basilar artery
- C. Internal jugular vein
- D. Coronary artery

The superficial temporal artery is a major branch of the external carotid artery (ECA). The ECA supplies blood to the face and neck and gives off several branches, one of which is the superficial temporal artery. This artery supplies blood to various structures in the scalp and is often assessed in clinical practice for various reasons, including understanding vascular supply to the head. In contrast, the basilar artery is a major vessel located at the base of the brain, formed by the fusion of the vertebral arteries, and does not branch from the external carotid artery. The internal jugular vein is a major vein responsible for draining blood from the brain, face, and neck, but it is not a branch of the ECA; rather, it is associated with venous drainage. Lastly, the coronary artery supplies blood to the heart itself and is completely unrelated to the external carotid artery or its branches. Thus, the superficial temporal artery is indeed the relevant major branch in this context.

7. Peripheral resistance increases with which of the following?

- A. Decreased blood viscosity
- B. Greater vessel length**
- C. Larger vessel diameter
- D. Increased blood temperature

Peripheral resistance is largely influenced by the characteristics of blood vessels and the properties of the blood itself. One of the primary factors contributing to increased peripheral resistance is the length of the blood vessels. As vessel length increases, the surface area in contact with the blood also increases, which creates more friction and resistance to blood flow. Essentially, the longer the vessel, the more resistance there is to the flow of blood through it. In contrast, decreased blood viscosity would lead to lower resistance, as less viscous blood flows more freely. Similarly, a larger vessel diameter reduces resistance, allowing blood to flow more efficiently, while increased blood temperature typically decreases blood viscosity, further reducing resistance. Thus, greater vessel length is the only correct answer in this context as it directly contributes to an increase in peripheral resistance.

8. A lack of venous response to compression in a Doppler study indicates which of the following?

- A. Suspicion of thrombosis
- B. High venous pressure
- C. Sign of normality
- D. Potential valvular dysfunction**

In the context of a Doppler study, a lack of venous response to compression can indicate potential valvular dysfunction. Normally, when a compressive force is applied to a vein, the venous system should respond by collapsing, reducing the volume of blood within the segment being compressed. If this response is absent, it can suggest that there is an issue with the venous valves, which are responsible for ensuring unidirectional blood flow back to the heart and preventing backflow. Valvular dysfunction can lead to improper venous drainage and pooling of blood, which may not allow for the expected collapse of the vein under compression. This abnormal response prompts further investigation into the integrity and function of the venous valves. In contrast, while suspicions of thrombosis, high venous pressure, or signs of normality may relate to venous function, they do not specifically address the mechanism relating to the collapse of the vein during compression in the same way that valvular dysfunction does. Thus, the indication is more closely aligned with valvular issues compromising normal venous response.

9. What are the typical settings for venous color flow imaging of the lower extremities?

- A. High PRF/scale settings
- B. Settings used for arterial scans
- C. Low PRF/scale settings**
- D. Standard settings across all modalities

In venous color flow imaging of the lower extremities, low PRF (pulsed repetition frequency) and scale settings are typically used. This is because venous flow tends to be slower than arterial flow, and utilizing low settings allows for better visualization of the lower-velocity venous blood flow. This setup helps in accurately detecting venous pathology, such as deep vein thrombosis or valve incompetence, by providing a clearer picture of venous hemodynamics. Higher PRF or scale settings, on the other hand, are more appropriate for arterial scans, where blood flow velocities are higher, and there is a need to accommodate these faster-moving structures without aliasing. Using standard settings across all modalities does not take into account the specific requirements of different vascular examinations; each type of imaging is optimized for the unique characteristics of blood flow in arteries versus veins. Therefore, low PRF and scale settings in venous color flow imaging ensure the quality and accuracy of the diagnostics performed.

10. Which statement accurately describes the characteristics of venous ulcers?

- A. They are usually painful and located near the foot
- B. They are located proximal to the medial malleolus and usually not painful**
- C. They are treated with surgical intervention
- D. They manifest as tissue necrosis

Venous ulcers are primarily associated with chronic venous insufficiency and are typically found in specific areas of the lower leg. The statement that they are located proximal to the medial malleolus and usually not painful accurately reflects the common clinical characteristics of venous ulcers. These ulcers often appear on the inner aspect of the ankle and sometimes extend upward along the leg. Unlike arterial ulcers, which tend to be more painful and often located on the toes or feet, venous ulcers are characterized by their relatively lower pain levels, making them less acute in presentation. The presence of edema and varicosities in the surrounding tissue is also a hallmark of venous ulcers, further supporting this statement as a good representation of their peculiar characteristics. Additionally, while surgical intervention may be considered in certain cases of chronic venous insufficiency, the primary treatment for venous ulcers focuses more on compression therapy and wound management rather than surgery itself. The other options either mischaracterize the pain level associated with venous ulcers or inaccurately describe their typical presentations and treatment approaches.

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:

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

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