

CVP and GI Pathology Exam 1 Practice (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. Which vascular change is linked to the development of abdominal aortic aneurysm as described?**
 - A. Hypertension**
 - B. Vasculitis**
 - C. Atherosclerosis**
 - D. Infection**

- 2. What is known about the cause of berry aneurysms?**
 - A. Unknown**
 - B. Known and due to hypertension**
 - C. Traumatic**
 - D. Inflammatory**

- 3. Atherosclerotic plaques form in which tunica of large and medium arteries?**
 - A. Adventitia**
 - B. Endothelium**
 - C. Intima**
 - D. Media**

- 4. Classic Kaposi sarcoma classically presents in which demographic and pattern?**
 - A. HIV-associated KS with systemic symptoms**
 - B. Older men with red-purple plaques on distal extremities**
 - C. Pediatric patients with mucocutaneous nodules**
 - D. Immunocompromised women with facial lesions**

- 5. Jaw claudication with temporal artery tenderness and vision disturbance is classic for which condition?**
 - A. Jaw claudication with arm weakness**
 - B. Vision disturbance with fever**
 - C. Jaw claudication with temporal artery tenderness and vision disturbance**
 - D. Temporal arteritis without jaw symptoms**

- 6. Irregular focal thickening of walls of medium and large muscular arteries is characteristic of which condition?**
- A. Vasculitis**
 - B. Atherosclerosis**
 - C. Fibromuscular dysplasia**
 - D. Arteriovenous malformation**
- 7. Which cell type dominates the vascular media and is central to vascular repair and pathology?**
- A. Endothelial cells**
 - B. Smooth muscle**
 - C. Fibroblasts**
 - D. Pericytes**
- 8. Which polycythemia is associated with chronic hypoxia?**
- A. Primary polycythemia**
 - B. Polycythemia Vera**
 - C. Relative polycythemia**
 - D. Secondary polycythemia**
- 9. Megaloblastic anemia has _____ nuclear division with _____ cytoplasmic maturation.**
- A. Normal, delayed**
 - B. Delayed, normal**
 - C. Delayed, accelerated**
 - D. Normal, normal**
- 10. What is known about the cause of berry aneurysms?**
- A. Hypertension-induced**
 - B. Unknown**
 - C. Trauma**
 - D. Genetic mutation in collagen**

Answers

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

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Explanations

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1. Which vascular change is linked to the development of abdominal aortic aneurysm as described?

- A. Hypertension**
- B. Vasculitis**
- C. Atherosclerosis**
- D. Infection**

Abdominal aortic aneurysm develops when the vessel wall becomes structurally weakened, and the most common vascular change linked to this is atherosclerosis. Lipid-filled plaques in the intima provoke chronic inflammation that can extend to the media, degrading elastic fibers and smooth muscle and often compromising the vasa vasorum. This medial degeneration weakens the wall, allowing a segment of the abdominal aorta to dilate under systemic blood pressure. Hypertension raises the risk of rupture by increasing wall stress but isn't the primary change causing the aneurysm itself. Vasculitis or infection can cause aneurysm formation in other contexts, but they're not the typical drivers of the common abdominal aortic aneurysm.

2. What is known about the cause of berry aneurysms?

- A. Unknown**
- B. Known and due to hypertension**
- C. Traumatic**
- D. Inflammatory**

Berry aneurysms arise from a congenital weakness in the wall of cerebral arteries, especially at the branching points in the circle of Willis. The defect is in the arterial media and elastic fibers, producing a thin-walled saccular outpouching that can slowly enlarge and eventually rupture. Hypertension and other factors like smoking and age increase the risk of rupture, but they do not create the aneurysm itself. Traumatic injury and inflammatory processes are not the primary causes of their formation, though trauma can precipitate rupture in an existing aneurysm. Some patients have an underlying connective tissue or genetic predisposition (for example, polycystic kidney disease) that can contribute to vessel-wall weakness.

3. Atherosclerotic plaques form in which tunica of large and medium arteries?

- A. Adventitia**
- B. Endothelium**
- C. Intima**
- D. Media**

Atherosclerotic plaques form in the tunica intima, the inner lining of large and medium arteries. Endothelial injury or dysfunction lets lipids enter the subendothelial space, where macrophages take up lipids and become foam cells. This lipid buildup triggers inflammation and smooth muscle cells from the media migrate into the intima, proliferate, and produce extracellular matrix, creating a lipid-rich plaque that expands into the lumen. The adventitia is the outer layer and the media is the smooth muscle layer; the lesion itself is primarily in the intima.

4. **Classic Kaposi sarcoma classically presents in which demographic and pattern?**
- A. HIV-associated KS with systemic symptoms
 - B. Older men with red-purple plaques on distal extremities**
 - C. Pediatric patients with mucocutaneous nodules
 - D. Immunocompromised women with facial lesions

Classic Kaposi sarcoma is most characteristically seen in elderly men of Mediterranean or Eastern European descent. The hallmark pattern is slowly progressive, violaceous to red-purple patches or plaques on the distal extremities, most often the legs and ankles. This indolent, skin-limited presentation on the distal legs distinguishes the classic form from other KS variants that involve younger patients, trunk or mucosal sites, or have a more aggressive course. So, older men with red-purple plaques on the distal extremities fit this pattern best.

5. **Jaw claudication with temporal artery tenderness and vision disturbance is classic for which condition?**
- A. Jaw claudication with arm weakness
 - B. Vision disturbance with fever
 - C. Jaw claudication with temporal artery tenderness and vision disturbance**
 - D. Temporal arteritis without jaw symptoms

Temporal arteritis (giant cell arteritis) is the condition this presentation points to. Inflammation of the branches of the carotid artery, especially the temporal artery, leads to granulomatous vasculitis with ischemia of nearby structures. Jaw claudication comes from ischemia of the masticatory muscles, temporal artery tenderness reflects the inflamed artery, and vision disturbance indicates involvement of ocular blood flow (often the ophthalmic artery leading to optic neuropathy). The combination of age over 50, jaw claudication, temporal artery tenderness, and vision changes is highly characteristic and demands urgent treatment with high-dose steroids to prevent irreversible blindness, with biopsy later confirming granulomatous inflammation.

6. **Irregular focal thickening of walls of medium and large muscular arteries is characteristic of which condition?**
- A. Vasculitis
 - B. Atherosclerosis
 - C. Fibromuscular dysplasia**
 - D. Arteriovenous malformation

Fibromuscular dysplasia. This condition produces noninflammatory, nonatherosclerotic irregular thickening of the media in medium to large arteries, leading to alternating stenosis and dilation that gives a beaded, irregular wall appearance on imaging. It most classically affects renal and carotid arteries and tends to occur in younger to middle-aged women, often presenting with hypertension or neurovascular symptoms. This pattern distinguishes it from vasculitis (inflammation-driven wall changes), atherosclerosis (lipid-rich plaque with aging and risk factors), and arteriovenous malformation (abnormal vessel connections rather than wall thickening).

7. Which cell type dominates the vascular media and is central to vascular repair and pathology?

- A. Endothelial cells
- B. Smooth muscle**
- C. Fibroblasts
- D. Pericytes

The vascular media is dominated by smooth muscle cells, the contractile cells arranged in concentric layers that give arteries their muscular strength and control vessel diameter. Beyond contracting to regulate blood flow, these cells are highly plastic: after injury they can switch to a synthetic state, proliferate, migrate into the intima, and secrete extracellular matrix. This repair capacity is why they are central to remodeling and pathology, such as neointimal hyperplasia, restenosis, and atherogenesis. Endothelial cells line the intima and regulate barrier and tone but do not form the media; fibroblasts are mainly in the adventitia; pericytes stabilize capillaries, not the arterial media.

8. Which polycythemia is associated with chronic hypoxia?

- A. Primary polycythemia
- B. Polycythemia Vera
- C. Relative polycythemia
- D. Secondary polycythemia**

Chronic hypoxia drives secondary polycythemia because low oxygen levels stimulate the kidneys to increase erythropoietin production. That EPO surge tells the bone marrow to make more red blood cells, raising the red cell mass as a compensatory response to improve oxygen delivery. This differs from primary polycythemia vera, which is due to a clonal overproduction of red cells that occurs independently of EPO (often with low EPO levels), and from relative polycythemia, where the apparent high hematocrit is due to reduced plasma volume rather than true excess red cells. So the link to chronic hypoxia specifically points to secondary polycythemia.

9. Megaloblastic anemia has _____ nuclear division with _____ cytoplasmic maturation.

- A. Normal, delayed
- B. Delayed, normal**
- C. Delayed, accelerated
- D. Normal, normal

Megaloblastic anemia shows asynchronous maturation due to impaired DNA synthesis from B12 or folate deficiency. The nucleus cannot complete division promptly, so nuclear maturation is delayed, while cytoplasmic maturation proceeds more normally. This creates cells with enlarged, immature nuclei (megaloblasts) but relatively mature cytoplasm. Therefore, the best completion is delayed nuclear maturation with normal cytoplasmic maturation.

10. What is known about the cause of berry aneurysms?

- A. Hypertension-induced**
- B. Unknown**
- C. Trauma**
- D. Genetic mutation in collagen**

Berry aneurysms are thought to arise from a weakness in the arterial wall at branching points, especially in the circle of Willis, but the exact initiating cause is not definitively known. Hypertension and trauma are not the primary causes of their formation; hypertension mainly increases rupture risk, and trauma tends to produce different, pseudoaneurysms rather than true berry aneurysms. There can be associations with connective tissue disorders, and certain genetic factors may predispose, yet no single genetic mutation in collagen or other gene has been proven to cause berry aneurysms in the general population. This ambiguity is why the best answer is that the cause is unknown.

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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://cvpgipath1.examzify.com>

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

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