

# CVP and GI Pathology Exam 2 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. During MI healing, when is scar formation typically completed?**
  - A. >2 weeks**
  - B. 0-12 hours**
  - C. 1-3 days**
  - D. 3-7 days**
  
- 2. Which time frame best indicates macrophage-mediated clearance and beginning of granulation tissue after MI?**
  - A. 0-12 hours**
  - B. 3-7 days: macrophage-mediated clearance and granulation tissue begins**
  - C. 12-24 hours**
  - D. 1-2 weeks: granulation tissue**
  
- 3. Total anomalous pulmonary venous connection is best described as?**
  - A. Pulmonary veins drain into the left atrium**
  - B. Pulmonary veins drain into the right atrium**
  - C. Pulmonary veins drain into the coronary sinus**
  - D. Pulmonary veins drain into the superior vena cava**
  
- 4. Features of hypertonic cardiomyopathy include all of the following except:**
  - A. Harsh systolic ejection murmur**
  - B. The presence of mitochondrial anomalies**
  - C. Atrial fibrillation**
  - D. Mural thrombus formation and emboli action**
  
- 5. Transposition of the great vessels is incompatible with life unless there is also which associated defect?**
  - A. There Is Also A Ventricular Septal Defect**
  - B. If The Foramen Ovale Closes At Birth**
  - C. If The Ductus Arteriosus Closes At Birth**
  - D. There Is Also A Pulmonary Stenosis**

- 6. Which histologic features characterize chronic pancreatitis?**
- A. Fibrosis, acinar cell loss, calcifications, and ductal irregularities**
  - B. Inflammation confined to ducts with preserved acinar tissue**
  - C. Fat necrosis without inflammation**
  - D. Desmoplastic invasion into surrounding tissue**
- 7. Transposition of the Great Vessels is defined by which arrangement?**
- A. Aorta from left ventricle and pulmonary artery from right ventricle**
  - B. Both great vessels from right ventricle**
  - C. Aorta from right ventricle and pulmonary artery from left ventricle**
  - D. Both from left ventricle**
- 8. Onion-skin arteriolosclerosis is best described as:**
- A. Atherosclerotic plaque formation in large arteries.**
  - B. Concentric laminated thickening of arterioles due to hyperplastic arteriolosclerosis.**
  - C. Fibrinoid necrosis of small vessels in immune vasculitis.**
  - D. Hyperplastic arteriolosclerosis with concentric laminated thickening; associated with malignant hypertension.**
- 9. Left-sided congestive heart failure is most commonly linked to which systemic condition?**
- A. Systemic hypertension**
  - B. Chronic obstructive pulmonary disease**
  - C. Pulmonary hypertension**
  - D. Severe asthma**
- 10. In Transposition Of The Great Vessels, Life Is Possible Only If There Is Also A Ventricular Septal Defect.**
- A. Foramen Ovale**
  - B. Ductus Arteriosus**
  - C. Ventricular Septal Defect**
  - D. Pulmonary Stenosis**

## Answers

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

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## **Explanations**

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**1. During MI healing, when is scar formation typically completed?**

- A. >2 weeks**
- B. 0-12 hours**
- C. 1-3 days**
- D. 3-7 days**

In MI healing, the scar that replaces necrotic myocardium forms as fibroblasts lay down collagen after inflammatory cells clear the dead tissue. The inflammatory phase and early granulation tissue are over by about one to two weeks, and by around two weeks the infarcted area has become a dense fibrous scar. Remodeling and maturation of this scar continue for weeks to months, but a mature scar is typically in place after more than two weeks. So the timing that best fits “scar formation is completed” is after two weeks or more. Shorter time frames reflect ongoing inflammatory and reparative processes (neutrophil activity in the first days, granulomatous/granulation tissue around the first week), not a fully established scar.

**2. Which time frame best indicates macrophage-mediated clearance and beginning of granulation tissue after MI?**

- A. 0-12 hours**
- B. 3-7 days: macrophage-mediated clearance and granulation tissue begins**
- C. 12-24 hours**
- D. 1-2 weeks: granulation tissue**

Macrophages take over during the transition from the early inflammatory stage to the proliferative repair stage, roughly around days 3 to 7 after a myocardial infarction. Right after injury, neutrophils dominate the response, cleaning debris in the first 0-2 days. As neutrophils wane, monocytes migrate in and differentiate into macrophages, which actively clear necrotic debris and secrete factors that recruit fibroblasts and new blood vessels. This sets the stage for granulation tissue, which begins to form within this same window (about day 3-7) and becomes more evident over the next week or two. By 1-2 weeks, granulation tissue is prominent, and later weeks lead to scar formation. So the timeframe that best fits macrophage-mediated clearance and the onset of granulation tissue is 3-7 days.

**3. Total anomalous pulmonary venous connection is best described as?**

- A. Pulmonary veins drain into the left atrium**
- B. Pulmonary veins drain into the right atrium**
- C. Pulmonary veins drain into the coronary sinus**
- D. Pulmonary veins drain into the superior vena cava**

TAPVC occurs when the pulmonary veins fail to connect to the left atrium. Instead, the oxygenated blood from the lungs returns to the right heart through anomalous connections that ultimately drain into the right atrial circulation (often via the superior vena cava, coronary sinus, or other systemic venous pathways). This is why the hallmark description is that the pulmonary veins drain into the right atrium. The result is mixing of oxygenated and deoxygenated blood and the need for an interatrial communication to allow blood to reach the left side of the heart for systemic circulation. Draining into the left atrium would be normal, and while some TAPVC variants involve drainage into the coronary sinus, the defining feature is right-sided drainage rather than left-sided.

**4. Features of hypertonic cardiomyopathy include all of the following except:**

- A. Harsh systolic ejection murmur**
- B. The presence of mitochondrial anomalies**
- C. Atrial fibrillation**
- D. Mural thrombus formation and emboli action**

Hypertrophic cardiomyopathy presents with signs and complications tied to a thickened, stiff left ventricle and dynamic LV outflow tract obstruction. The harsh systolic murmur comes from the obstructed outflow tract and changes with preload and afterload, often becoming louder with reduced preload (like standing or Valsalva). Atrial fibrillation is common because the stiff ventricle leads to left atrial enlargement and electrical irritability. Mural thrombus formation and emboli can occur, particularly with apical hypertrophy where flow is more stagnant or when an apical aneurysm develops. Mitochondrial anomalies are not typical features of hypertrophic cardiomyopathy; the disease more commonly arises from mutations in sarcomeric proteins causing myocyte disarray and fibrosis rather than primary mitochondrial defects.

**5. Transposition of the great vessels is incompatible with life unless there is also which associated defect?**

- A. There Is Also A Ventricular Septal Defect**
- B. If The Foramen Ovale Closes At Birth**
- C. If The Ductus Arteriosus Closes At Birth**
- D. There Is Also A Pulmonary Stenosis**

Transposition of the great vessels creates two parallel circuits, so survival depends on mixing between the systemic and pulmonary blood. A ventricular septal defect provides a direct pathway for mixing between the ventricles, allowing oxygenated blood from the left ventricle to reach the systemic circulation. This mixing is what keeps the neonate alive despite the abnormal great vessel connections. If mixing routes like the foramen ovale or the ductus arteriosus were to close, there would be little to no mixing and severe hypoxemia. Pulmonary stenosis can occur with transposition and may influence the balance of flows, but it does not universally provide the essential mixing that a ventricular septal defect does.

**6. Which histologic features characterize chronic pancreatitis?**

- A. Fibrosis, acinar cell loss, calcifications, and ductal irregularities**
- B. Inflammation confined to ducts with preserved acinar tissue**
- C. Fat necrosis without inflammation**
- D. Desmoplastic invasion into surrounding tissue**

Chronic pancreatitis is a pattern of long-standing pancreatic injury that leaves the gland scarred and structurally distorted. The histologic hallmarks reflect this chronic injury: fibrous tissue replacing much of the normal pancreatic parenchyma, loss of acinar cells as the exocrine tissue is destroyed, calcifications formed within the tissue or ducts from longstanding inflammation, and irregularities of the pancreatic ducts such as dilation, strictures, and uneven duct contours. This combination—fibrosis, acinar loss, calcifications, and ductal irregularities—captures the typical architecture change seen in chronic pancreatitis. Inflammation confined only to ducts with preserved acini does not fit the usual pattern, fat necrosis without inflammation is not characteristic, and desmoplastic tissue in CP does not invade surrounding tissues the way a carcinoma would.

- 7. Transposition of the Great Vessels is defined by which arrangement?**
- A. Aorta from left ventricle and pulmonary artery from right ventricle**
  - B. Both great vessels from right ventricle**
  - C. Aorta from right ventricle and pulmonary artery from left ventricle**
  - D. Both from left ventricle**

In transposition of the great vessels, there is ventriculoarterial discordance: the aorta arises from the right ventricle and the pulmonary artery arises from the left ventricle. This creates two parallel circulations instead of the normal series arrangement. Deoxygenated blood from the body returns to the right heart and is pumped back into the systemic circulation via the aorta, while oxygenated blood from the lungs is sent back to the body without first circulating through the lungs. Life relies on mixing between the circuits through a shunt such as a patent foramen ovale, PDA, or VSD. Management often includes keeping the ductus arteriosus open with prostaglandins in the neonate and ultimately surgically correcting the anatomy with an arterial switch operation. The scenario where both great vessels arise from the left ventricle describes a different defect (double outlet left ventricle) and is not transposition.

- 8. Onion-skin arteriolosclerosis is best described as:**
- A. Atherosclerotic plaque formation in large arteries.**
  - B. Concentric laminated thickening of arterioles due to hyperplastic arteriolosclerosis.**
  - C. Fibrinoid necrosis of small vessels in immune vasculitis.**
  - D. Hyperplastic arteriolosclerosis with concentric laminated thickening; associated with malignant hypertension.**

Onion-skin arteriolosclerosis is the pattern of hyperplastic arteriolosclerosis seen in malignant hypertension. It shows concentric, laminated thickening of the small-artery/intima due to proliferation of smooth muscle cells with reduplication of the basement membrane, giving an onion-skin appearance on microscopic exam. This feature is specific to small vessels and is strongly associated with malignant or severely elevated blood pressure, rather than with atherosclerosis of large arteries or fibrinoid necrosis seen in immune vasculitis. Therefore, the description that best fits is hyperplastic arteriolosclerosis with concentric laminated thickening, associated with malignant hypertension.

**9. Left-sided congestive heart failure is most commonly linked to which systemic condition?**

- A. Systemic hypertension**
- B. Chronic obstructive pulmonary disease**
- C. Pulmonary hypertension**
- D. Severe asthma**

Chronic systemic hypertension is the common systemically driven path that leads to left-sided heart failure. The high afterload that hypertension imposes forces the left ventricle to work harder to eject blood. Over time this causes left ventricular hypertrophy and eventual dysfunction, reducing the heart's ability to pump effectively. The impaired forward flow plus the elevated pressure in the left atrium and pulmonary veins produces pulmonary venous congestion and edema, the hallmark of left-sided failure. In contrast, lung-focused diseases like COPD or asthma push the right heart toward failure (cor pulmonale) or cause secondary pulmonary hypertension, which is typically a consequence rather than the primary systemic cause of left-sided failure. While pulmonary hypertension can accompany left-sided failure, it's not the systemic condition that most commonly initiates left-sided congestive heart failure.

**10. In Transposition Of The Great Vessels, Life Is Possible Only If There Is Also A Ventricular Septal Defect.**

- A. Foramen Ovale**
- B. Ductus Arteriosus**
- C. Ventricular Septal Defect**
- D. Pulmonary Stenosis**

In Transposition of the great vessels, the two circulations run in parallel because the aorta arises from the right ventricle and the pulmonary artery from the left ventricle. For life, you need mixing between the two streams so that oxygenated blood can reach the systemic circulation. A ventricular septal defect provides a direct path for blood to mix between the ventricles: oxygenated blood from the left ventricle can enter the right ventricle via the defect, and then part of that mixed blood is ejected into the aorta. This mixing raises systemic oxygen content enough to sustain life, which is why this defect is classically associated with survival in TGA. Other forms of mixing—like a patent foramen ovale or a ductus arteriosus—can also help, but the ventricular septal defect is the most dependable and commonly discussed mechanism for maintaining life in this condition. Pulmonary stenosis does not provide the necessary mixing mechanism in the same direct way and isn't the factor that ensures survival.

## 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](mailto:hello@examzify.com).**

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

**<https://cvpgipath2.examzify.com>**

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

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