

Adult CCRN Practice Exam (Sample)

Study Guide



Everything you need from our exam experts!

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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. Which symptom is commonly associated with aortic dissection?**
 - A. Productive cough and wheezing**
 - B. Severe tearing chest or back pain radiating to the abdomen, may cause hypotension and pulse deficits if arch vessels involved**
 - C. Sudden hearing loss**
 - D. Abdominal pain with positive Murphy's sign**

- 2. Which of the following statements is true about brain death ancillary testing?**
 - A. It can only be confirmed by clinical exam; no tests are needed**
 - B. It involves tests that may include EEG, cerebral angiography, and nuclear brain scans**
 - C. It requires only a CT scan**
 - D. It is diagnosed by normal EEG**

- 3. Antidiuretic hormone (ADH) exerts its primary action on which organ to conserve body water?**
 - A. Lungs**
 - B. Spleen**
 - C. Kidneys**
 - D. Heart**

- 4. Which factor is associated with immunosuppression in critical illness?**
 - A. Excessive hydration.**
 - B. Malnutrition.**
 - C. Improved gag reflex.**
 - D. Normal skin barrier.**

- 5. For IAP grade III (21-25 mm Hg), what is indicated?**
 - A. Abdominal decompression is indicated.**
 - B. Immediate surgical exploration.**
 - C. Conservative management with fluids only.**
 - D. Antibiotics and watchful waiting.**

- 6. Which mechanism underlies hyperviscosity syndrome?**
- A. Excess serum proteins or cellular components leading to hypoperfusion**
 - B. Autoimmune destruction of red blood cells**
 - C. Hyperglycemia-induced dehydration**
 - D. Decrease in plasma oncotic pressure**
- 7. What is a major complication of esophageal varices?**
- A. Rupture and bleeding due to distention of submucosal veins.**
 - B. Esophageal spasm without bleeding.**
 - C. Esophageal perforation from instrumentation.**
 - D. Heartburn due to acid reflux.**
- 8. In the context of hemorrhagic stroke, what is vasospasm?**
- A. Sudden onset high blood pressure**
 - B. Bleeding into the ventricles**
 - C. Spasm of peripheral arteries causing limb ischemia**
 - D. Irritation from free blood in the brain causing delayed cerebral ischemia, typically occurring 3-21 days post-event**
- 9. A papillary muscle rupture after myocardial infarction can cause which problem?**
- A. Atrial fibrillation**
 - B. Acute mitral regurgitation**
 - C. Ventricular septal defect**
 - D. Dressler's syndrome**
- 10. What is the initial management emphasis in intracerebral hemorrhage within neurocritical care?**
- A. Immediate anticoagulation**
 - B. Neurocritical care focus with observation and possible neurosurgery**
 - C. Antibiotic therapy only**
 - D. Thrombolysis**

Answers

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

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Explanations

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1. Which symptom is commonly associated with aortic dissection?

A. Productive cough and wheezing

B. Severe tearing chest or back pain radiating to the abdomen, may cause hypotension and pulse deficits if arch vessels involved

C. Sudden hearing loss

D. Abdominal pain with positive Murphy's sign

Aortic dissection classically presents with abrupt, severe chest or back pain described as tearing or ripping, and this pain may radiate to the abdomen as the dissection extends. When the vessels branching from the arch are involved, perfusion to organs can drop, leading to hypotension and pulse deficits. This combination—sudden, intense tearing pain plus signs of compromised circulation—is the hallmark of the condition and makes this symptom the best match. Other options point to respiratory disease (productive cough and wheeze), inner-ear or vascular etiologies (sudden hearing loss), or gallbladder disease (abdominal pain with Murphy's sign), none of which align with the classic presentation of aortic dissection.

2. Which of the following statements is true about brain death ancillary testing?

A. It can only be confirmed by clinical exam; no tests are needed

B. It involves tests that may include EEG, cerebral angiography, and nuclear brain scans

C. It requires only a CT scan

D. It is diagnosed by normal EEG

Ancillary testing in brain death provides objective confirmation when the bedside examination alone isn't sufficient or feasible. These tests look for either the absence of brain electrical activity or the absence of cerebral blood flow, which together support cessation of all brain function. Electroencephalography (EEG) assesses brain electrical activity. A finding of electrocerebral inactivity can support a brain death diagnosis, but EEG alone isn't always definitive because it can be affected by medications, metabolic disturbances, or technical factors. Cerebral angiography directly visualizes blood flow to the brain. If there is no intracranial circulation, it strongly supports brain death, since no perfusion to brain tissue remains. Nuclear brain perfusion scans evaluate how well blood reaches and is utilized by brain tissue. Lack of uptake indicates absent cerebral perfusion, aligning with brain death criteria. CT scans, by contrast, show structure but not functional status, so they're not used by themselves to confirm brain death. A normal EEG would indicate preserved brain activity, which is incompatible with brain death. Thus, the statement that ancillary testing may include EEG, cerebral angiography, and nuclear brain scans accurately reflects how brain death is objectively confirmed beyond the clinical exam.

3. Antidiuretic hormone (ADH) exerts its primary action on which organ to conserve body water?

- A. Lungs
- B. Spleen
- C. Kidneys**
- D. Heart

ADH's main action is in the kidneys, where it increases water reabsorption in the collecting ducts by acting on V2 receptors. This triggers a cAMP-mediated signal that promotes insertion of aquaporin-2 channels into the apical membranes of collecting duct cells, making the tubules more permeable to water. Water moves from the filtrate back into the bloodstream, reducing urine volume and concentrating the urine to conserve body water. Other organs like the lungs, spleen, or heart do not mediate the primary water-conserving effect of ADH; its vasoconstrictive actions via V1 receptors can influence blood pressure, but the kidney is the key site for conserving water.

4. Which factor is associated with immunosuppression in critical illness?

- A. Excessive hydration.
- B. Malnutrition.**
- C. Improved gag reflex.
- D. Normal skin barrier.

Nutrition status heavily influences immune function in the critically ill. Malnutrition compromises the body's defense by reducing lean body mass and impairs both cell-mediated and humoral immunity—decreasing lymphocyte numbers and activity, weakening phagocytosis, and lowering antibody production. It also weakens the mucosal barrier and alters cytokine signaling, all of which raise the risk of infection and slow healing. In the ICU, the catabolic stress of illness often creates a mismatch between energy/protein needs and intake, making malnutrition a key driver of immunosuppression. The other factors don't directly suppress immunity. Excessive hydration isn't a known mechanism of immune suppression and can lead to edema or electrolyte issues; a stronger gag reflex lowers the risk of aspiration, not immune weakness; a normal skin barrier indicates an intact first line of defense, rather than a compromised immune state.

5. For IAP grade III (21-25 mm Hg), what is indicated?

- A. Abdominal decompression is indicated.**
- B. Immediate surgical exploration.
- C. Conservative management with fluids only.
- D. Antibiotics and watchful waiting.

Intra-abdominal hypertension at this level (21-25 mm Hg) is high enough to impair perfusion and organ function, risking progression to abdominal compartment syndrome. The pressure compresses abdominal vessels, reduces venous return, and compromises renal and diaphragmatic function, worsening ventilation and hemodynamics. The definitive step to prevent further deterioration is to relieve the pressure surgically, typically with a decompressive laparotomy. Medical management alone or waiting for changes in labs won't quickly restore perfusion when the abdominal contents are under such high pressure, making decompression the indicated action.

6. Which mechanism underlies hyperviscosity syndrome?

- A. Excess serum proteins or cellular components leading to hypoperfusion**
- B. Autoimmune destruction of red blood cells**
- C. Hyperglycemia-induced dehydration**
- D. Decrease in plasma oncotic pressure**

Hyperviscosity syndrome arises when the blood becomes thicker because of excess proteins or cellular components in the plasma. In conditions like Waldenström macroglobulinemia or multiple myeloma, high levels of monoclonal immunoglobulins or an increased cellular mass raise plasma viscosity, causing sluggish flow especially in the microcirculation. This impaired flow leads to hypoperfusion of tissues, producing symptoms such as headache, dizziness, blurred vision, mucosal bleeding, and neurologic changes. It's not primarily about autoimmune red cell destruction, dehydration from hyperglycemia, or a loss of plasma oncotic pressure; those factors affect other aspects of physiology, not the thickening of blood that characterizes hyperviscosity. Therefore, the mechanism is excess serum proteins or cellular components increasing viscosity and reducing perfusion.

7. What is a major complication of esophageal varices?

- A. Rupture and bleeding due to distention of submucosal veins.**
- B. Esophageal spasm without bleeding.**
- C. Esophageal perforation from instrumentation.**
- D. Heartburn due to acid reflux.**

Esophageal varices form when portal hypertension causes the submucosal veins in the distal esophagus to dilate and become fragile. The major complication is rupture of these dilated veins, leading to massive upper gastrointestinal bleeding. This rupture can cause rapid blood loss, vision of hematemesis, melena, and shock if not promptly treated. The other scenarios—esophageal spasm without bleeding, perforation from instrumentation, or heartburn from acid reflux—are not the typical or defining complications of varices. The risk of bleeding is what makes variceal disease particularly dangerous and the focus of urgent management and preventive strategies.

8. In the context of hemorrhagic stroke, what is vasospasm?

- A. Sudden onset high blood pressure**
- B. Bleeding into the ventricles**
- C. Spasm of peripheral arteries causing limb ischemia**
- D. Irritation from free blood in the brain causing delayed cerebral ischemia, typically occurring 3-21 days post-event**

Vasospasm after a hemorrhagic stroke means cerebral arteries become irritated by blood in the subarachnoid space and constrict, leading to reduced blood flow and delayed brain ischemia. This irritation from blood breakdown products triggers smooth muscle contraction and inflammatory changes in the vessels, so the brain can become ischemic days after the initial bleed. It typically appears 3 to 21 days after the event, often peaking around days 5 to 7. This is distinct from a sudden rise in blood pressure, bleeding into the ventricles, or a peripheral vascular spasm that would affect limbs rather than the brain. In practice, patients may develop new neurological deficits or a drop in level of consciousness during this window, even after the bleed has been controlled. Monitoring with tools like transcranial Doppler helps detect rising flow velocities suggestive of vasospasm, and imaging can reveal new ischemic changes. Prevention and management focus on preserving cerebral perfusion and limiting delayed injury: using medications like nimodipine to improve outcomes, maintaining adequate blood pressure and volume to support cerebral blood flow, securing the source of bleeding, and, in severe cases, considering endovascular therapy to relieve the vessel narrowing.

9. A papillary muscle rupture after myocardial infarction can cause which problem?

- A. Atrial fibrillation**
- B. Acute mitral regurgitation**
- C. Ventricular septal defect**
- D. Dressler's syndrome**

Papillary muscles keep the mitral valve leaflets properly tethered so they close tightly during systole. When one ruptures after a myocardial infarction, the mitral valve can no longer coapt, causing sudden and severe mitral regurgitation. The blood that should be pumped forward into the aorta is regurgitated back into the left atrium, rapidly raising left atrial and pulmonary venous pressures and leading to pulmonary edema and low forward cardiac output with hypotension. This is an emergency mechanical complication that typically requires urgent hemodynamic stabilization and definitive surgical repair or replacement of the mitral valve. Other post-MI problems like atrial fibrillation, a ventricular septal defect, or Dressler's syndrome have different mechanisms and are not caused by papillary muscle rupture.

10. What is the initial management emphasis in intracerebral hemorrhage within neurocritical care?

A. Immediate anticoagulation

B. Neurocritical care focus with observation and possible neurosurgery

C. Antibiotic therapy only

D. Thrombolysis

The initial management emphasis in intracerebral hemorrhage is neurocritical care stabilization with close observation and early neurosurgical consultation, focusing on preventing hematoma expansion, ensuring adequate airway and perfusion, reversing any coagulopathy, and monitoring for neurological deterioration. This approach prioritizes rapid, targeted interventions to control brain injury and guide possible operative treatment if the hematoma or increased intracranial pressure warrants it. Starting anticoagulation would worsen the bleed, antibiotic therapy alone does not address the hemorrhage, and thrombolysis would exacerbate bleeding, making them inappropriate as initial management.

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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://adultccrn.examzify.com>

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

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