

# CAMRT Radiography 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 the chief disadvantage of CT colonography compared to conventional endoscopy?**
  - A. Can't biopsy or remove polyps**
  - B. Bowel prep**
  - C. Cost**
  - D. Time consuming procedure**
  
- 2. Which area of the body is most vulnerable to decubitus ulcers?**
  - A. Knees**
  - B. Heels**
  - C. Sacrum**
  - D. Scapulae**
  
- 3. If 6 x-rays are taken and 2 are repeated, what is the repeat rate?**
  - A. 20%**
  - B. 33%**
  - C. 40%**
  - D. 50%**
  
- 4. Where is the central ray directed for an AP, bilateral projection of the posterior ribs below the diaphragm?**
  - A. At the level of the xiphoid tip**
  - B. Through the mid-abdomen**
  - C. Between the xiphoid tip and the lower rib cage**
  - D. Anteroposteriorly at the belly button**
  
- 5. What is the recommended breathing technique during a Soft tissue neck examination?**
  - A. Rapid expiration**
  - B. Controlled pause**
  - C. Slow inspiration**
  - D. Fast inhalation**

- 6. Which legislation ensures the protection of a patient's health records?**
- A. PHIPA**
  - B. PHLPA**
  - C. PHNHL**
  - D. PHNBA**
- 7. After how many minutes does the fluoroscopy timer typically go off during a procedure?**
- A. 3 minutes**
  - B. 5 minutes**
  - C. 10 minutes**
  - D. 15 minutes**
- 8. What does the appearance of a fat pad sign on an elbow X-ray typically indicate?**
- A. Joint dislocation**
  - B. An undetectable fracture**
  - C. Ligament tear**
  - D. Arthritis**
- 9. Does a high grid ratio focusing range have a smaller or larger range?**
- A. Larger focusing range**
  - B. Smaller focusing range**
  - C. No effect on the focusing range**
  - D. Depends on the type of grid used**
- 10. What is the most commonly used injection site for an abdominal angiogram?**
- A. Subclavian artery**
  - B. Radial artery**
  - C. Femoral artery**
  - D. Popliteal artery**

## Answers

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

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## **Explanations**

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**1. What is the chief disadvantage of CT colonography compared to conventional endoscopy?**

- A. Can't biopsy or remove polyps**
- B. Bowel prep**
- C. Cost**
- D. Time consuming procedure**

The chief disadvantage of CT colonography, commonly known as virtual colonoscopy, compared to conventional endoscopy is the inability to perform biopsies or remove polyps during the procedure. In conventional endoscopy, specific tools can be introduced through the colonoscope to directly obtain tissue samples or excise polyps identified during the examination. This capability allows for immediate diagnosis and potential treatment in one session. CT colonography, on the other hand, is primarily a diagnostic imaging technique. It provides detailed images of the colon that can identify abnormalities such as polyps or cancer but does not allow for direct intervention during the imaging process. If suspicious lesions are found, the patient must undergo a subsequent conventional colonoscopy for biopsy or polyp removal, which may lead to additional time and preparation requirements. While bowel prep, cost, and the duration of the procedure are pertinent factors, they do not represent the unique critical aspect of CT colonography's limitations regarding direct intervention. Hence, the inability to biopsy or remove polyps is recognized as the most significant disadvantage when comparing CT colonography with conventional methods of colon evaluation.

**2. Which area of the body is most vulnerable to decubitus ulcers?**

- A. Knees**
- B. Heels**
- C. Sacrum**
- D. Scapulae**

The sacrum is the area of the body most vulnerable to decubitus ulcers, commonly known as pressure ulcers or bedsores. This susceptibility arises from several factors. The sacrum is a bony prominence that bears weight when a person is lying down, particularly in the supine position. When pressure is applied to any part of the body and is not relieved, blood flow to that area can become restricted. This leads to tissue ischemia, and if pressure persists, it can result in skin breakdown. Additionally, the sacral area is typically subjected to continuous pressure, especially in immobile patients or those who are bedridden. The skin overlying the sacrum is often thinner and more prone to injury than other areas, compounding the risk. Factors such as moisture, friction, and shear can further affect the integrity of the skin in this area. While other locations such as the heels, knees, and scapulae can also develop pressure ulcers, the sacrum remains the most common site due to its anatomical and physiological vulnerabilities. Recognizing this can help healthcare providers implement preventative measures effectively, such as frequent repositioning and skin care.

**3. If 6 x-rays are taken and 2 are repeated, what is the repeat rate?**

- A. 20%
- B. 33%**
- C. 40%
- D. 50%

To determine the repeat rate, you can use the formula: 
$$\text{Repeat Rate} = \frac{\text{Number of Repeats}}{\text{Total X-rays Taken}} \times 100$$
 In this scenario, there are 6 x-rays taken in total, with 2 of those needing to be repeated. Plugging the numbers into the formula: 
$$\text{Repeat Rate} = \frac{2}{6} \times 100 = \frac{200}{6} \approx 33.33\%$$
 When rounded, this value corresponds to approximately 33%. This indicates that 33% of the x-rays taken were repeats, providing a clear understanding of how frequently initial attempts did not meet the required quality standards. The repeat rate is essential in evaluating the efficiency and quality of radiographic practices. A high repeat rate can indicate problems in technique, patient positioning, or equipment, which ultimately can affect patient safety and increase exposure time.

**4. Where is the central ray directed for an AP, bilateral projection of the posterior ribs below the diaphragm?**

- A. At the level of the xiphoid tip
- B. Through the mid-abdomen
- C. Between the xiphoid tip and the lower rib cage**
- D. Anteroposteriorly at the belly button

For an anteroposterior (AP) bilateral projection of the posterior ribs below the diaphragm, the central ray is directed to a location that adequately captures the anatomy of interest. The posterior ribs below the diaphragm correspond to the lower portions of the rib cage, specifically targeting the area that includes the lower ribs and the mid-abdomen region. Directing the central ray between the xiphoid tip and the lower rib cage is optimal because this area is where the ribs transition as they curve downwards, allowing for a comprehensive view of the ribs while minimizing distortion. The xiphoid process serves as a landmark for locating this region, and centering the beam here ensures that both sets of ribs are included in the radiographic image, which is critical for diagnostic purposes. The other options suggest central ray placements that do not adequately capture the entirety of the ribs below the diaphragm or would lead to underexposure or overexposure of the ribs, resulting in incomplete diagnostic images. By focusing on the area between the xiphoid tip and the lower rib cage, the central ray placement is most effective for this projection.

**5. What is the recommended breathing technique during a Soft tissue neck examination?**

- A. Rapid expiration**
- B. Controlled pause**
- C. Slow inspiration**
- D. Fast inhalation**

During a soft tissue neck examination, the recommended breathing technique is a controlled pause. This method is utilized to minimize motion during the exposure, which is critical in ensuring clear images of the neck's soft tissues and airways. A controlled pause allows the patient to hold their breath at the appropriate moment, reducing any potential blurring caused by breathing or movement. Choosing this technique is particularly important because the anatomy of the neck includes structures that are closely packed and can be easily obscured by motion. By instructing the patient to pause their breathing, radiographers can capture more precise details in the imaging results, aiding in accurate diagnosis. In contrast, other techniques such as rapid expiration or fast inhalation could lead to movement artifacts that compromise image quality. Slow inspiration may not provide the necessary stability during the crucial moment of exposure, as the patient's body may still be in motion during the breathing cycle. Thus, the controlled pause effectively balances the need for patient comfort with the requirement for high-quality imaging in soft tissue evaluations.

**6. Which legislation ensures the protection of a patient's health records?**

- A. PHIPA**
- B. PHLPA**
- C. PHNHL**
- D. PHNBA**

The legislation that ensures the protection of a patient's health records is PHIPA, which stands for the Personal Health Information Protection Act. This act governs the collection, use, and disclosure of personal health information within Ontario. It establishes standards for the management of personal health information by health information custodians, including ensuring that individuals' privacy is respected and their data is securely handled. PHIPA is designed to enhance patient trust and confidentiality by giving patients rights over their health information, such as the right to access their own records and to know how their information is being used. The act also imposes obligations on healthcare providers to protect this information from unauthorized access, ensuring that the patient's health records are managed with the highest standards of security and privacy. The other options listed do not pertain to health records protection legislation in Ontario or serve a similar purpose. Understanding PHIPA's role is crucial for healthcare professionals, as it not only ensures compliance but also promotes ethical practices in handling sensitive patient information.

**7. After how many minutes does the fluoroscopy timer typically go off during a procedure?**

- A. 3 minutes**
- B. 5 minutes**
- C. 10 minutes**
- D. 15 minutes**

The fluoroscopy timer is typically set to go off after 5 minutes of continuous operation. This automatic time limit is an important safety feature designed to prevent unnecessary radiation exposure to both patients and personnel during procedures. The timer serves as a reminder to the operator to assess the situation and evaluate whether it is necessary to continue or pause the fluoroscopic examination. By limiting the continuous exposure time, the risk of radiation-related side effects can be significantly minimized. Establishing a 5-minute limit helps ensure that clinicians remain vigilant about radiation dose management, which is crucial in maintaining safety standards in radiological practices.

**8. What does the appearance of a fat pad sign on an elbow X-ray typically indicate?**

- A. Joint dislocation**
- B. An undetectable fracture**
- C. Ligament tear**
- D. Arthritis**

The fat pad sign on an elbow X-ray is a crucial indicator of potential underlying injuries, particularly fractures, even when they may not be immediately visible. The presence of a fat pad sign suggests that there is elevated intra-articular pressure, which often occurs with joint injuries. Although it can be associated with joint dislocation, the most significant implication of the fat pad sign is that it may indicate either a fracture that is not directly observable on the X-ray or a subtle fracture that can lead to the accumulation of fluid and therefore the displacement of the fat pads. In practice, this sign can be seen in cases of elbow fractures, such as a radial head fracture, where the fracture might not be explicitly outlined on the radiograph, but the fat pads, which are fat-filled spaces around the joint, are displaced due to the injury. Therefore, recognizing this sign prompts further evaluation and management to rule out unseen fractures or relevant injuries that need treatment. Understanding this relationship helps radiographers and healthcare providers make informed decisions regarding patient care and the necessity for further imaging or intervention.

**9. Does a high grid ratio focusing range have a smaller or larger range?**

- A. Larger focusing range**
- B. Smaller focusing range**
- C. No effect on the focusing range**
- D. Depends on the type of grid used**

A high grid ratio is associated with a smaller focusing range. The focusing range of a grid refers to the distance within which the primary x-rays should be directed in order for the grid to effectively absorb scatter radiation while allowing the primary beam to pass through. When a grid has a high ratio, it means that the grid strips are relatively tall compared to their interspace material. This design leads to a stricter requirement on the angle of the x-ray beam entering the grid. Consequently, this results in a more limited range of acceptable distances and angles from which the central ray can approach the grid. As a result, the high grid ratio effectively necessitates a smaller focusing range to ensure optimal image quality. Additionally, grids are often categorized by their ratio - for example, a grid with a 16:1 ratio will have a tighter focusing range than a grid with a 5:1 ratio. Thus, the nature of a high grid ratio indeed contributes to a smaller focusing range, making the provided answer correct.

**10. What is the most commonly used injection site for an abdominal angiogram?**

- A. Subclavian artery**
- B. Radial artery**
- C. Femoral artery**
- D. Popliteal artery**

The femoral artery is the most commonly used injection site for an abdominal angiogram due to its proximity to major blood vessels supplying the abdominal organs and its accessibility for catheterization. The femoral artery is large and runs close to the surface of the skin in the groin area, which allows for easier access and manipulation during the procedure. This is particularly advantageous in interventional radiology, where precise catheter placement is crucial for effective imaging and treatment. The other choice options, while relevant to vascular access in other contexts, are not typically utilized for abdominal angiograms. The subclavian artery, while accessible, is less commonly chosen due to its deeper location and increased risk of complications. The radial artery is more commonly used for procedures involving the upper extremities or for coronary angiography. The popliteal artery, located behind the knee, is not ideal for abdominal procedures as it is further from the target region and can present challenges in catheter navigation to the abdominal vessels. Thus, the femoral artery's combination of accessibility, size, and direct pathway to the abdominal vasculature makes it the preferred choice for this type of angiography.

## 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://camrtradiography.examzify.com>**

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

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