

# HEALTHCARE STUDY GUIDE

## NUCLEAR MEDICINE TECHNOLOGIST

### YEAR 2

### CLINICAL SKILLS

**SAMPLE**  
250 EXAM PREP QUESTIONS,  
WITH EXPLAINED ANSWERS



LEARNERS | PRACTITIONERS | EDUCATORS

[HealthcareStudyGuide.com](https://HealthcareStudyGuide.com)

UNITY CREST SOLUTIONS INC.

## Who Is Healthcare Study Guide For

Healthcare Study Guide is a professional-grade study and review resource for healthcare workers across the United States and Canada. Whether you're preparing for a certification exam, re-entering the workforce, or transitioning into a new role or specialty, this guide is designed to help you test your knowledge, reinforce critical concepts, and build career confidence.

This guide can be used for exam preparation, knowledge review, and independent study. It is suitable for a wide range of professionals who need to refresh, refine, or benchmark their understanding of core healthcare topics.

It is not a substitute for accredited coursework or formal clinical training, and does not replace regulatory, licensing, or board-approved materials. Rather, it is meant to complement your preparation, offering structured support and insight as you work toward your goals.

## Who We Serve

### 1. Internationally Trained Healthcare Professionals

You've completed your education and worked in your home country. Now you're preparing to meet Canadian or U.S. standards. This guide helps you align your clinical knowledge with North American expectations.

### 2. Licensed Nurses, Paramedics, and Allied Health Workers Advancing Their Roles

Whether you're moving from general practice to a specialty field, taking on leadership, or preparing for an internal assessment, this guide helps you reinforce foundational knowledge and expand into more advanced thinking.

### 3. Returning Healthcare Professionals

If you're re-entering the workforce after time away, this guide is a practical starting point to evaluate what you remember, what's changed, and where to focus next.

### 4. New Graduates Preparing for Exams

You're nearing the end of your formal education, and now it's time to prepare for licensing. Our practice tests and explanations help you study smarter and approach your exams with confidence.

### 5. Healthcare Instructors, Coaches, and Bridge Programs

You need reliable, structured materials to support learners from diverse backgrounds. This guide is suitable for supplemental instruction, assessment tools, and career readiness modules.

## Start Strong. Stay Sharp. Move Forward With Confidence.

Whether you're preparing for exams, transitioning into a new role, or reviewing after time away, *Healthcare Study Guide* gives you the structure and clarity to take your next step. Designed for independent learners, this guide helps you build confidence, reinforce knowledge, and stay aligned with your professional goals.

Explore additional resources, practice tools, and review materials tailored to today's healthcare environment at: [HealthcareStudyGuide.com](https://HealthcareStudyGuide.com)

Certainly! Here's a version that's approximately 20% longer, while maintaining clarity and structure—ideal for filling out the page more fully without being repetitive:



## What Healthcare Study Guide Offers

Whether you're preparing for a certification exam, returning to the field after time away, or stepping into a new clinical role, *Healthcare Study Guide* provides the structure and insight you need to move forward with purpose. Designed to reflect North American clinical standards, this guide gives you a flexible, self-paced tool for reinforcing your knowledge and building confidence.

1. **Structured Study Guides**

Each guide is developed and reviewed by experienced healthcare professionals to align with core competencies across roles and jurisdictions. Content is thoughtfully organized to help learners from diverse educational backgrounds, including internationally trained professionals, navigate complex topics with clarity and focus.

2. **Exam-Style Practice Tests**

Timed, multiple-choice practice exams simulate real testing environments. These allow you to track progress, improve decision-making under pressure, and become more familiar with exam structure, pacing, and question format.

3. **Role-Specific Question Banks**

Our question banks are organized around practical responsibilities and clinical terminology you'll encounter on the job. Whether you're in direct patient care, support services, or administration, the material is crafted to reflect real-world priorities and expectations.

4. **Clinical Answer Rationales**

Each question is followed by a detailed rationale explaining not just which answer is correct, but why it's correct. This supports deeper learning, strengthens clinical reasoning, and encourages critical thinking—especially useful for internationally trained professionals adapting to North American protocols.

5. **Supplemental Review Tools**

You'll also find extra learning material on topics such as infection prevention, patient safety, ethical care, cultural competence, and interprofessional communication. These tools are designed to round out your knowledge and help you better understand the expectations of modern healthcare systems.

## Using This Guide Effectively

This study guide is meant to supplement—not replace—formal education, accredited coursework, or required clinical training. It should be used to enhance your preparation by identifying your strengths, exposing gaps in knowledge, and encouraging repeat engagement with real-world scenarios and test logic.

For best results, we recommend pairing this guide with official reference materials and regulatory frameworks provided by your licensing authority, training institution, or employer. This combined approach ensures that you're not only reviewing the right material but developing a mindset for safe, confident, and effective practice.



## Ready to Take the First Step Toward Career Progression

Whether you're pivoting to a new specialty, re-entering the field, or preparing for certification in the U.S. or Canada, this guide provides a structured foundation for the next step in your healthcare career.

Visit **HealthcareStudyGuide.com** to access additional resources, take full-length practice tests, and explore tools tailored to your role and goals.

## Why Healthcare Study Guide

We believe healthcare education should be practical, affordable, and accessible—whether you're starting a new chapter, transitioning across borders, or stepping into a more advanced role. This guide was built to help you move forward with clarity, confidence, and direction.

This isn't a shortcut. It's a structured, expert-reviewed study and review tool designed to help you assess your knowledge, strengthen clinical reasoning, and focus on what matters most. From practice tests to detailed answer breakdowns, every feature is designed to support real-world preparation—not just academic review.

Use this guide alongside formal coursework, official licensing materials, and clinical experience for the best results.

## Success Stories from Professionals Like You

"I was preparing to return to practice in North America after more than a decade abroad. This guide gave me a clear path to follow. It helped me refocus and regain my confidence before applying for hospital roles."

— Priya D., Registered Nurse

"I used this guide while prepping for a trauma nurse position. The questions pushed me to think beyond memorization and into clinical decision-making. It helped me walk into the interview prepared and focused."

— Daniel H., Licensed Practical Nurse

"I'm an instructor for an international bridging program. We needed something affordable that didn't compromise on depth. The explanations are sharp, the structure is clean, and my students rely on it week after week."

— Tanya W., Clinical Educator

## Ready to Start Your Own Success Story

Whether you're reviewing core skills, preparing for certification, or planning a lateral move—Healthcare Study Guide gives you the tools to move forward with purpose.

Visit **HealthcareStudyGuide.com** to get started today.



## What This Guide Will Teach You

This guide isn't just about reviewing facts. It's about sharpening clinical reasoning, preparing for role-specific expectations, and building confidence as you advance, transition, or requalify in healthcare.

Success in this field demands more than academic knowledge. It requires focus, effort, and a mindset ready for high-pressure decision-making. Here's what to expect:

- 1. Progress takes work**

This guide is a tool—how much you gain depends on how actively you use it. Engaging with questions, reviewing explanations, and retesting weak areas is key to progress.

- 2. The focus is on clinical thinking**

Every question is designed to develop how you think, not just what you know. The answer explanations aren't filler—they're your opportunity to strengthen diagnostic logic, decision-making, and situational awareness.

- 3. It's a supplement, not a stand-alone solution**

This guide is most effective when paired with accredited coursework, current regulatory materials, and hands-on experience. It helps orient your study and fill knowledge gaps—but it's not a replacement for formal training or licensure requirements.

Used consistently, this guide can help you study with more purpose, reduce stress, and show up prepared—whether for an exam, a return-to-practice interview, or a new position in healthcare.

## What This Guide Is—and What It Is Not

Healthcare Study Guide is a structured study resource built to support exam preparation, professional transitions, and independent review. It includes questions, explanations, and scenario-based material designed by professionals to reflect clinical realities in North American healthcare.

However, credentialing and licensure standards vary. This guide does not guarantee certification and is not affiliated with any official regulatory or licensing body.

This is not a substitute for medical education, formal clinical instruction, or hands-on patient care experience. It is meant to complement your preparation—not replace it.

Before using this guide for credentialing purposes, verify current requirements with your licensing authority or relevant governing body.



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## Unlock Your Next Step

Whether you're studying for a national exam or re-entering the healthcare field, this guide is designed to move with you—offering practical tools to build confidence and clarity in your next step.

With flexible, self-paced learning built for busy professionals, *Healthcare Study Guide* supports learners at every stage. Visit [HealthcareStudyGuide.com](https://HealthcareStudyGuide.com) for access to practice tests, review tools, and resources tailored to your goals.





# SNOWSITES



**Year 2: Advanced Techniques and Clinical Applications in Nuclear Medicine**  
**Subject 3: Clinical Applications in Cardiology**

**1. What does MPI assess in cardiology?**

- a) Congenital defects
- b) Blood flow abnormalities
- c) Valve function issues
- d) Heart rate variations

**Correct Answer:** b) Blood flow abnormalities

**Explanation:** Myocardial perfusion imaging (MPI) is a non-invasive nuclear medicine technique that evaluates blood flow to the heart muscle. It is primarily used to detect coronary artery disease and assess the severity of myocardial ischemia by visualizing perfusion defects during stress or rest conditions.

**2. Which isotope is commonly used in MPI?**

- a) Technetium-99m
- b) Thallium-201
- c) Iodine-123
- d) Carbon-14

**Correct Answer:** a) Technetium-99m

**Explanation:** Technetium-99m is the most widely used radioactive isotope in myocardial perfusion imaging (MPI) due to its ideal properties, including a short half-life, favorable energy emission, and low radiation dose to the patient. This makes it effective for imaging the heart and assessing myocardial blood flow.

**3. What condition can MPI help diagnose?**

- a) Aneurysms
- b) Coronary artery disease
- c) Arrhythmias
- d) Stroke

**Correct Answer:** b) Coronary artery disease

**Explanation:** Myocardial perfusion imaging (MPI) is particularly effective in diagnosing coronary artery disease (CAD) by identifying areas of reduced blood flow to the heart muscle. It helps clinicians evaluate the severity of CAD, guiding treatment decisions and management strategies for affected patients.





#### 4. What is the primary purpose of MPI?

- a) Evaluate myocardial perfusion
- b) Diagnose heart valve issues
- c) Assess heart size
- d) Monitor blood pressure

**Correct Answer:** a) Evaluate myocardial perfusion

**Explanation:** The primary purpose of myocardial perfusion imaging (MPI) is to evaluate myocardial perfusion, which refers to the blood flow to the heart muscle. This assessment helps identify areas of ischemia or infarction, enabling clinicians to determine the presence and extent of coronary artery disease.

#### 5. What type of stress test is often used with MPI?

- a) Bicycle ergometer
- b) Medication-induced stress
- c) Cold exposure
- d) Treadmill stress test

**Correct Answer:** d) Treadmill stress test

**Explanation:** A treadmill stress test is commonly used in conjunction with myocardial perfusion imaging (MPI) to assess how the heart functions under increased physical demand. During this test, patients walk on a treadmill while their heart's perfusion is monitored, providing valuable information regarding myocardial ischemia.

#### 6. Which patient condition might contraindicate MPI?

- a) Asthma
- b) Unstable angina
- c) Hypertension
- d) Diabetes

**Correct Answer:** b) Unstable angina

**Explanation:** Unstable angina is a condition that may contraindicate myocardial perfusion imaging (MPI) due to the risk of provoking ischemic episodes during the stress test. Patients with unstable angina require immediate medical attention, and MPI may not be safe until their condition stabilizes.



### 7. How is MPI imaging typically performed?

- a) Through nuclear scanning
- b) Using X-rays
- c) By MRI techniques
- d) With echocardiography

**Correct Answer:** a) Through nuclear scanning

**Explanation:** Myocardial perfusion imaging (MPI) is performed using nuclear scanning techniques, which involve the injection of a radioactive tracer followed by imaging with a gamma camera. This allows visualization of blood flow to the heart muscle and identification of any perfusion defects.

### 8. What does a "cold spot" in MPI indicate?

- a) Infarcted muscle
- b) Valve dysfunction
- c) Normal perfusion
- d) Healthy tissue

**Correct Answer:** a) Infarcted muscle

**Explanation:** A "cold spot" in myocardial perfusion imaging (MPI) indicates areas of the heart muscle that are not receiving adequate blood flow, often due to ischemia or infarction. This finding suggests compromised myocardial tissue, which may require further evaluation and intervention by the healthcare team.

### 9. Which demographic may benefit from MPI?

- a) Young athletes
- b) Pregnant women
- c) Pediatric patients
- d) Elderly patients

**Correct Answer:** d) Elderly patients

**Explanation:** Elderly patients are often at a higher risk for coronary artery disease and related cardiac conditions. Myocardial perfusion imaging (MPI) can help assess their heart health and identify issues such as ischemia or previous myocardial infarction, allowing for timely intervention and treatment.



10. What is a common side effect of MPI?

- a) Chest pain
- b) Nausea
- c) Allergic reaction
- d) Fatigue

Correct Answer: d) Fatigue

**Explanation:** Fatigue is a common side effect experienced by patients during or after myocardial perfusion imaging (MPI), especially if a treadmill stress test is involved. The physical exertion during the test can lead to temporary fatigue, but it typically resolves shortly after the procedure is completed.

11. When is rest imaging typically performed?

- a) After stress test
- b) Before stress test
- c) Only in emergencies
- d) During stress test

Correct Answer: a) After stress test

**Explanation:** Rest imaging in myocardial perfusion imaging (MPI) is typically performed after the stress test. This allows for comparison of myocardial perfusion during stress and at rest, enabling clinicians to assess the presence of reversible ischemia or permanent myocardial damage.

12. Which of the following is a limitation of MPI?

- a) High radiation exposure
- b) Poor image resolution
- c) Cost-effective procedure
- d) Inability to assess valves

Correct Answer: d) Inability to assess valves

**Explanation:** A limitation of myocardial perfusion imaging (MPI) is that it primarily evaluates myocardial blood flow and does not provide information about the heart valves or their function. Additional imaging modalities, such as echocardiography or MRI, may be required to assess valvular conditions.



13. What is the term for reduced blood flow to heart?

- a) Myocardial infarction
- b) Myocardial perfusion
- c) Myocardial ischemia
- d) Myocardial hypertrophy

**Correct Answer:** c) Myocardial ischemia

**Explanation:** Myocardial ischemia refers to a condition where there is reduced blood flow to the heart muscle, which can lead to chest pain or angina. Myocardial perfusion imaging (MPI) is specifically designed to detect areas of ischemia by assessing blood flow to the heart under various conditions.

14. What does MPI stand for in cardiology?

- a) Myocardial pulse intensity
- b) Myocardial pressure index
- c) Myocardial potential injury
- d) Myocardial perfusion imaging

**Correct Answer:** d) Myocardial perfusion imaging

**Explanation:** MPI stands for myocardial perfusion imaging, which is a nuclear medicine technique used to visualize blood flow to the heart muscle. It is crucial for diagnosing conditions such as coronary artery disease, assessing myocardial ischemia, and determining the effectiveness of treatment strategies.

15. Which imaging technique complements MPI for cardiac assessment?

- a) MRI scanning
- b) Echocardiography
- c) Chest X-ray
- d) CT angiography

**Correct Answer:** b) Echocardiography

**Explanation:** Echocardiography complements myocardial perfusion imaging (MPI) by providing information about the heart's structure and function. While MPI assesses blood flow, echocardiography can evaluate cardiac chambers, valves, and overall heart function, offering a comprehensive assessment of cardiac health.



16. What patient preparation is required for MPI?

- a) Caffeine consumption
- b) Avoiding medications
- c) Fasting overnight
- d) Hydration with water

**Correct Answer:** b) Avoiding medications

**Explanation:** Patients undergoing myocardial perfusion imaging (MPI) are often instructed to avoid certain medications, especially those affecting heart rate or blood pressure, such as beta-blockers. This preparation helps ensure accurate test results and allows for a proper assessment of myocardial perfusion during the study.

17. What is the primary imaging modality used in MPI?

- a) Nuclear scintigraphy
- b) Computed tomography
- c) Ultrasound
- d) Magnetic resonance imaging

**Correct Answer:** a) Nuclear scintigraphy

**Explanation:** The primary imaging modality used in myocardial perfusion imaging (MPI) is nuclear scintigraphy, which involves the use of radioactive tracers to visualize blood flow in the heart. This technique provides functional information about the myocardium, allowing for the assessment of coronary artery disease and ischemia.

18. What is the half-life of Technetium-99m?

- a) 24 hours
- b) 6 hours
- c) 12 hours
- d) 6.02 hours

**Correct Answer:** b) 6 hours

**Explanation:** Technetium-99m has a half-life of approximately 6 hours, which makes it ideal for use in myocardial perfusion imaging (MPI). This short half-life minimizes radiation exposure to the patient while allowing sufficient time for imaging to be performed after the radiotracer is administered.



19. What is a common indication for using MPI?

- a) Routine check-up
- b) Follow-up on hypertension
- c) Chest pain investigation
- d) Assessment of fever

**Correct Answer:** c) Chest pain investigation

**Explanation:** A common indication for utilizing myocardial perfusion imaging (MPI) is the investigation of chest pain. MPI helps determine if the chest pain is due to myocardial ischemia or other cardiac conditions, guiding further diagnostic and therapeutic interventions aimed at managing the patient's heart health.

20. What is the role of stress in MPI?

- a) Increases blood flow
- b) Monitors blood pressure
- c) Evaluates valve motion
- d) Decreases heart efficiency

**Correct Answer:** a) Increases blood flow

**Explanation:** The role of stress in myocardial perfusion imaging (MPI) is to increase blood flow to the heart, simulating conditions of physical exertion. This helps in identifying areas of the heart muscle that may not receive adequate blood flow during stress, which can indicate underlying coronary artery disease.

21. How is the tracer administered for MPI?

- a) Oral ingestion
- b) Inhalation
- c) Intravenous injection
- d) Subcutaneous injection

**Correct Answer:** c) Intravenous injection

**Explanation:** The tracer used in myocardial perfusion imaging (MPI) is typically administered via intravenous injection. This method allows the radioactive isotopes to circulate through the bloodstream and be taken up by the heart muscle, enabling accurate imaging of myocardial perfusion during the study.





22. Which phase is NOT part of an MPI study?

- a) Preparation phase
- b) Stress phase
- c) Rest phase
- d) Recovery phase

**Correct Answer:** a) Preparation phase

**Explanation:** The preparation phase is not considered an actual part of the myocardial perfusion imaging (MPI) study itself. The study consists of the stress phase, where the heart is put under stress, and the rest phase, where imaging is performed to assess myocardial perfusion under both conditions.

23. What indicates a successful MPI study?

- a) Long duration
- b) Patient discomfort
- c) High radiation levels
- d) Clear images

**Correct Answer:** d) Clear images

**Explanation:** A successful myocardial perfusion imaging (MPI) study is indicated by clear, interpretable images that accurately depict blood flow to the heart muscle. Clear images allow healthcare providers to make informed decisions regarding the presence and extent of coronary artery disease and guide appropriate patient management.

24. What does MPI help evaluate in heart failure?

- a) Electrolyte balance
- b) Heart muscle viability
- c) Blood sugar levels
- d) Lung capacity

**Correct Answer:** b) Heart muscle viability

**Explanation:** Myocardial perfusion imaging (MPI) helps evaluate heart muscle viability in patients with heart failure by assessing blood flow to the myocardium. Identifying viable heart tissue is crucial for determining potential interventions, such as revascularization or medical management, to improve patient outcomes.



25. Which of the following is NOT a benefit of MPI?

- a) Immediate results
- b) Non-invasive
- c) Minimal radiation exposure
- d) High diagnostic accuracy

**Correct Answer:** a) Immediate results

**Explanation:** While myocardial perfusion imaging (MPI) is non-invasive, offers high diagnostic accuracy, and has minimal radiation exposure, it typically does not provide immediate results. The images obtained need to be analyzed and interpreted by a nuclear medicine physician, which can take additional time after the study is completed.



- 1). (A) (B) (C) (D)
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- 24). (A) (B) (C) (D)
- 25). (A) (B) (C) (D)



## About the Creators

### Bobby Bedi

Bobby Bedi is a digital strategist and EdTech systems architect with over 30 years of experience building scalable learning platforms. With roots in architecture and digital innovation, he specializes in designing user-focused education tools that blend clean design with powerful infrastructure.

Bobby has led digital transformation initiatives across startups, public companies, and global education ventures. His work centers on making learning more intuitive, accessible, and effective—regardless of a user's background or starting point.

At Healthcare Study Guide, Bobby oversees platform strategy, systems design, and digital experience—ensuring that each product delivers clarity, performance, and long-term value for learners and institutions alike.

### Kris McFarlane

Kris McFarlane is a content strategist, learning designer, and EdTech entrepreneur with two decades of experience building practical, outcome-driven education programs. His background spans business development, curriculum design, and instructional systems—particularly in industries where accessible education is critical to career growth.

Kris has led the development of national study systems used across North America, combining technical accuracy with an understanding of how real people learn. His approach centers on clear, actionable content that meets professionals where they are and helps them move forward—fast.

At Healthcare Study Guide, Kris leads product development and content strategy, ensuring that every module reflects clinical standards while remaining approachable, efficient, and easy to use.

## Work with the Creators

Bobby and Kris bring over 40 years of combined experience in EdTech, curriculum design, and scalable learning systems. Together, they build platforms that make professional education more accessible, more effective, and more aligned with the demands of today's workforce.

To learn more or connect with the Unity Crest Solutions team, visit [UnityCrestSolutions.com](https://UnityCrestSolutions.com).



## About Unity Crest Solutions

At Unity Crest Solutions, our mission is clear: Unite, Educate, and Innovate. We stand at the forefront of technological and educational innovation, solving global business challenges with strategic, cutting-edge solutions. Founded on the core principles of accessibility, efficiency, and continuous improvement, Unity Crest has become a driving force in transforming industries and empowering organizations across diverse sectors.

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## Unite, Educate, and Innovate

At Unity Crest, we believe in the power of unity and education to drive innovation. By bringing together teams, technology, and knowledge, we empower our clients to seize new opportunities and foster long-term growth.

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This resource has been developed to support academic reinforcement and exam readiness, particularly for individuals seeking to assess their baseline understanding or return to practice. It is not a standalone training tool and should never be used in lieu of accredited coursework, hands-on experience, or jurisdictional requirements outlined by your certifying body.

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We strongly recommend that all users consult the official resources provided by their provincial, state, or national regulatory organizations to obtain the most current, accurate, and legally binding information regarding licensing requirements, exam structure, and scope of practice.

Use this guide as a companion—not a replacement—for official training and credentialing pathways.



# Unlock Your Potential with the Healthcare Study Guide

Whether you're preparing for a healthcare certification exam, stepping into a new clinical role, or transitioning from international training into the North American healthcare system, the Healthcare Study Guide is designed to support your next step.

This guide goes beyond memorization. It offers a structured, focused approach to help you review core knowledge, strengthen clinical reasoning, and prepare with confidence. Created for professionals at all stages, it delivers practical insight—without the high cost or complexity of traditional review programs.

## What We Offer

- **Realistic Practice Tests**  
Timed assessments simulate the pace and pressure of real exams, helping you evaluate readiness, sharpen focus, and build test-day confidence.
- **Targeted Question and Answer Sets**  
Engage with questions written by healthcare professionals, aligned with clinical logic and licensing standards in both the U.S. and Canada.
- **In-Depth Explanations**  
Every answer includes a clear, practical rationale—so you understand not just what's correct, but why. It's preparation Designed for clinical application.

Whether you're preparing for licensing, requalification, or a shift in specialty, this guide gives you the tools to move forward—on your own schedule.

## Real Stories from Real Professionals

- "This gave me the structure I needed. After years away from practice, it helped me rebuild confidence and pass my certification."  
— Alina S., Registered Nurse
- "I was preparing to move into emergency care. This guide helped me refocus and sharpen the clinical thinking I needed."  
— Marcus K., Paramedic
- "As a program lead in an international bridge course, I've reviewed dozens of study tools. This is one of the few I continue to recommend."  
— Dr. Elise N., Healthcare Educator

## Take the Next Step in Your Career

Healthcare professionals across North America use this guide to sharpen their knowledge, rebuild confidence, and move into new roles with clarity and purpose. Now it's your turn.

Visit [HealthcareStudyGuide.com](https://HealthcareStudyGuide.com) to access the tools and support designed to help you prepare smarter, faster, and with more confidence.

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