

Registered Nurse Certified in Neonatal Intensive Care Unit (RNC-NICU) Practice Test (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 statement best describes the role of the NICU nurse as a patient advocate?**
 - A. To enforce parental compliance with medical decisions regardless of family wishes**
 - B. To prioritize family preferences alongside medical considerations**
 - C. To minimize parental involvement**
 - D. To focus only on clinical outcomes**

- 2. Which medication is given to high-risk preterm infants to prevent infection from RSV?**
 - A. Palivizumab (Synagis)**
 - B. Ribavirin**
 - C. Interferon**
 - D. Oseltamivir**

- 3. The first drug usually given for neonatal seizures is:**
 - A. Phenytoin**
 - B. Phenobarbital (Donnatal)**
 - C. Diazepam**
 - D. Valproate**

- 4. When caring for an infant on contact isolation for MRSA, which PPE is essential for caregivers?**
 - A. Gown and gloves**
 - B. Surgical mask only**
 - C. N95 respirator**
 - D. Eye protection only**

- 5. Pneumatosis intestinalis on radiographs is most characteristic of which condition?**
 - A. Necrotizing enterocolitis**
 - B. Duodenal atresia**
 - C. Intussusception**
 - D. Malrotation**

- 6. Which statement accurately describes erythema toxicum neonatorum?**
- A. It is a benign rash that may persist for several days and resolves spontaneously**
 - B. It is an indication for antibiotic therapy**
 - C. It is a sign of infection requiring isolation**
 - D. It is a form of eczema that requires topical steroids**
- 7. Which antiviral medication is used to treat neonatal herpes simplex virus infections?**
- A. Acyclovir**
 - B. Ganciclovir**
 - C. Foscarnet**
 - D. Zidovudine**
- 8. Which metabolic disorder is most commonly screened and can affect neurodevelopment if untreated?**
- A. Phenylketonuria (PKU)**
 - B. Cystinuria**
 - C. Homocystinuria**
 - D. Tyrosinemia**
- 9. In expressing milk, which statement BEST describes the difference between foremilk and hindmilk?**
- A. The fat content is up to 3x greater in hindmilk than foremilk**
 - B. Foremilk contains more fat than hindmilk**
 - C. Hindmilk contains more lactose but less fat**
 - D. Foremilk and hindmilk have identical fat content**
- 10. Accounting for almost 50% of congenital heart defects, which is the most common congenital heart defect?**
- A. Tetralogy of Fallot**
 - B. Ventricular Septal Defect**
 - C. Patent Ductus Arteriosus**
 - D. Transposition of the Great Arteries**

Answers

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

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Explanations

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1. Which statement best describes the role of the NICU nurse as a patient advocate?

- A. To enforce parental compliance with medical decisions regardless of family wishes**
- B. To prioritize family preferences alongside medical considerations**
- C. To minimize parental involvement**
- D. To focus only on clinical outcomes**

Advocacy in the NICU centers on supporting the baby and the family by balancing medical realities with the family's goals and values. The nurse acts as a bridge, translating complex information into understandable details, exploring options, and helping parents participate in decisions in a way that respects their beliefs, culture, and wishes. This approach—often called family-centered care—recognizes that parents are essential members of the care team and should be involved in informed choices about their infant's treatment. By prioritizing family preferences alongside medical considerations, the nurse ensures care plans are feasible and ethically sound while honoring parental autonomy. Choices that push for parental compliance without regard to family wishes, or that minimize parental involvement or focus only on clinical outcomes, fail to support the infant's best interests and the family's role in care.

2. Which medication is given to high-risk preterm infants to prevent infection from RSV?

- A. Palivizumab (Synagis)**
- B. Ribavirin**
- C. Interferon**
- D. Oseltamivir**

The main concept is preventing RSV illness in high-risk preterm infants with a passive immunization approach. Palivizumab is a monoclonal antibody given by monthly injections during RSV season to provide immediate protection by binding the RSV F protein and neutralizing the virus, which reduces hospitalization risk. It is used specifically for prophylaxis, not as a vaccine that stimulates the infant's own immune response. Ribavirin is an antiviral used to treat RSV infections in certain hospitalized infants, not for routine prevention. Interferon isn't a standard RSV prophylaxis. Oseltamivir targets influenza, not RSV. Therefore, Palivizumab is the best choice for preventing RSV infection in these high-risk infants.

3. The first drug usually given for neonatal seizures is:

- A. Phenytoin
- B. Phenobarbital (Donnatal)**
- C. Diazepam
- D. Valproate

Phenobarbital is used first for neonatal seizures because it reliably suppresses seizures by enhancing GABAergic inhibition in the immature brain, providing quick and effective control. In newborns, its long-standing clinical use and pharmacokinetics allow rapid achievement of therapeutic levels with a manageable dosing schedule. While it can cause respiratory depression and sedation, these risks are offset by careful monitoring and support. Other drugs like diazepam, phenytoin, or valproate tend to have less reliable seizure control in neonates or higher risks in this population, making them less suitable as the initial therapy.

4. When caring for an infant on contact isolation for MRSA, which PPE is essential for caregivers?

- A. Gown and gloves**
- B. Surgical mask only
- C. N95 respirator
- D. Eye protection only

MRSA is transmitted primarily by contact, so the protective barrier must cover skin and clothing to prevent contamination. The essential PPE is a gown and gloves because they create a barrier for both the caregiver's skin/clothes and hands whenever touching the infant or contaminated surfaces. Eye protection or masks aren't routinely needed for MRSA contact precautions unless there's a risk of splashes or aerosols. An N95 respirator is meant for airborne pathogens and isn't required here, and wearing a mask or eye protection alone would not prevent contact transmission. So, gown and gloves provide the core protection for contact isolation in this scenario.

5. Pneumatosis intestinalis on radiographs is most characteristic of which condition?

- A. Necrotizing enterocolitis**
- B. Duodenal atresia
- C. Intussusception
- D. Malrotation

Pneumatosis intestinalis, gas within the bowel wall, is a hallmark radiographic finding of necrotizing enterocolitis in newborns, especially in premature infants. This pattern reflects bowel wall ischemia and gas-producing bacteria, and it often appears with other NEC signs such as portal venous gas or distension, signaling possible progression to perforation. Duodenal atresia usually shows a double bubble sign with little distal gas and isn't characterized by intramural gas. Intussusception presents with an illustrative ultrasound or plain-film signs like a target or crescent pattern and isn't defined by gas within the bowel wall. Malrotation can cause abnormal bowel positioning and volvulus-related obstruction, but pneumatosis intestinalis isn't its typical feature. Thus, pneumatosis intestinalis is most characteristic of necrotizing enterocolitis.

6. Which statement accurately describes erythema toxicum neonatorum?

- A. It is a benign rash that may persist for several days and resolves spontaneously**
- B. It is an indication for antibiotic therapy**
- C. It is a sign of infection requiring isolation**
- D. It is a form of eczema that requires topical steroids**

Erythema toxicum neonatorum is a common, benign newborn eruption that appears in the first days of life and goes away on its own. The rash shows up as small red patches with central vesicles or pustules and can be seen on the trunk and limbs. Infants are typically well-appearing with normal vital signs, and there is no fever or systemic illness. It usually begins around 2-5 days after birth and resolves spontaneously within a week or two without treatment. Because this rash is not due to infection, it does not require antibiotics, isolation, or any special therapy. Parents can be reassured and advised to monitor for red flags such as fever, poor feeding, lethargy, or a rash that changes or worsens, which would warrant medical evaluation.

7. Which antiviral medication is used to treat neonatal herpes simplex virus infections?

- A. Acyclovir**
- B. Ganciclovir**
- C. Foscarnet**
- D. Zidovudine**

In neonatal HSV infections, the goal is to rapidly suppress HSV replication with an antiviral that reaches infected tissues, including the brain, when the disease involves the CNS or disseminates. Acyclovir fits this need best because it is activated inside HSV-infected cells by viral thymidine kinase to a monophosphate form, then by cellular enzymes to the triphosphate form, which inhibits viral DNA polymerase and causes chain termination. This targeted mechanism, combined with proven safety and efficacy in newborns, makes it the treatment of choice for neonatal HSV. Ganciclovir, while effective against CMV, has more bone marrow toxicity and is not the preferred option for HSV. Foscarnet can be used for acyclovir-resistant HSV or certain CMV cases, but its nephrotoxicity and broader toxicity profile make it a less favorable first-line choice in neonates. Zidovudine (AZT) targets HIV, not HSV, so it has no role in treating neonatal HSV infections.

8. Which metabolic disorder is most commonly screened and can affect neurodevelopment if untreated?

- A. Phenylketonuria (PKU)**
- B. Cystinuria**
- C. Homocystinuria**
- D. Tyrosinemia**

Screening newborns for metabolic disorders targets conditions that, if not identified and treated early, can lead to neurodevelopmental problems. Phenylketonuria is the classic example because a deficiency of phenylalanine hydroxylase lets phenylalanine build up in the blood and brain. That buildup, if not controlled from infancy, causes intellectual disability and other neurodevelopmental impairments. Detecting elevated phenylalanine through routine newborn screening enables immediate dietary management to restrict phenylalanine and prevent brain injury, which is why this condition is the most commonly screened and most strongly linked to neurodevelopmental outcomes when untreated. The other disorders listed have health impacts, but they don't carry the same universal newborn-screening emphasis for preventing neurodevelopmental delay.

9. In expressing milk, which statement BEST describes the difference between foremilk and hindmilk?

- A. The fat content is up to 3x greater in hindmilk than foremilk**
- B. Foremilk contains more fat than hindmilk**
- C. Hindmilk contains more lactose but less fat**
- D. Foremilk and hindmilk have identical fat content**

During a single breastfeeding session, milk composition shifts from the initial foremilk to the later hindmilk. Foremilk is the thinner, early milk that provides hydration and more lactose, while hindmilk appears creamier and has a higher fat content, delivering more calories. The statement that best describes this difference is that fat content is up to three times greater in hindmilk than in foremilk. This captures the main point—that hindmilk is richer in fat, though the exact amount varies from feeding to feeding and among individuals. The other ideas don't fit the pattern: foremilk is not higher in fat than hindmilk, hindmilk is not richer in lactose with less fat, and foremilk and hindmilk do not have identical fat levels. In practice, ensuring a full feeding helps the infant receive the fatty, energy-dense hindmilk. When expressing milk, note that the early expressed milk is foremilk and the later portions are more likely to be hindmilk.

10. Accounting for almost 50% of congenital heart defects, which is the most common congenital heart defect?

A. Tetralogy of Fallot

B. Ventricular Septal Defect

C. Patent Ductus Arteriosus

D. Transposition of the Great Arteries

Ventricular septal defect is the most common congenital heart defect. It occurs when the wall between the left and right ventricles doesn't form completely, leaving a hole through which blood from the higher-pressure left ventricle shunts to the right ventricle (a left-to-right shunt). Because this defect is so prevalent, many cases are detected early, and small defects often close on their own as the child grows, sometimes within the first year of life. Clinically, small VSDs may be barely hemodynamically significant, while larger ones increase pulmonary blood flow, leading to rapid breathing, feeding difficulties, poor weight gain, and signs of congestive heart failure in infancy. On examination you may hear a harsh holosystolic murmur best heard along the left lower sternal border, with a possible thrill; chest X-ray can show increased pulmonary markings due to overcirculation. Other defects listed—Tetralogy of Fallot, patent ductus arteriosus, and transposition of the great arteries—are less common overall and have distinct clinical pictures and management. Thus, the diaphragm is between most CHDs and the characteristic, typical presentation aligns with a ventricular septal defect, making it the best answer here.

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:

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

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