

Certified Registered Nurse Infusion (CRNI) Practice Exam (Sample)

Study Guide



Everything you need from our exam experts!

Copyright © 2025 by Examzify - A Kaluba Technologies Inc. product.

ALL RIGHTS RESERVED.

No part of this book may be reproduced or transferred in any form or by any means, graphic, electronic, or mechanical, including photocopying, recording, web distribution, taping, or by any information storage retrieval system, without the written permission of the author.

Notice: Examzify makes every reasonable effort to obtain from reliable sources accurate, complete, and timely information about this product.

SAMPLE

Questions

SAMPLE

- 1. What is a common use for Chloramphenicol?**
 - A. Bacterial eye infections**
 - B. Respiratory infections**
 - C. Viral infections**
 - D. Fungal infections**
- 2. What conditions is Dopamine typically used to treat?**
 - A. Hypertension and diabetes**
 - B. Hypertension, CHF, and cardiogenic shock**
 - C. Heart arrhythmias**
 - D. Severe allergic reactions**
- 3. What possible side effect may occur if Reglan is given too quickly?**
 - A. Severe headache**
 - B. Chest pain**
 - C. Anxiety**
 - D. Nausea**
- 4. In a quality process, which of the following components is NOT included?**
 - A. Structure**
 - B. Outcomes**
 - C. Diagnosis**
 - D. Process**
- 5. What is the significance of potassium replacement in high doses of Lasix?**
 - A. To prevent kidney damage**
 - B. To avoid hypokalemia**
 - C. To enhance medication effects**
 - D. To reduce fluid retention**

- 6. What is a common symptom of a thrombus in the subclavian region?**
- A. High fever**
 - B. Palpitations**
 - C. Tingling in the arm**
 - D. Muscle cramping**
- 7. What is a notable effect of Zyvox (linezolid) on the body?**
- A. Myelosuppression**
 - B. Nephrotoxicity**
 - C. Ototoxicity**
 - D. Hepatotoxicity**
- 8. Which condition can Rocephin effectively treat due to its ability to cross the blood-brain barrier?**
- A. The common cold**
 - B. Meningitis**
 - C. Urinary tract infections**
 - D. Skin infections**
- 9. What should be used to prepare the site for spinal catheter dressing changes?**
- A. Alcohol wipes**
 - B. Chlorhexidine**
 - C. iodophor**
 - D. Hydrogen peroxide**
- 10. Which dextrose concentration is known to support Candida albicans?**
- A. 5% Dextrose**
 - B. TPA**
 - C. 10% Dextrose**
 - D. Normal Saline**

Answers

SAMPLE

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

SAMPLE

Explanations

SAMPLE

1. What is a common use for Chloramphenicol?

A. Bacterial eye infections

B. Respiratory infections

C. Viral infections

D. Fungal infections

Chloramphenicol is an antibiotic that is commonly used to treat bacterial eye infections, among other conditions. It works by inhibiting bacterial protein synthesis, which is crucial for the growth and multiplication of bacteria. This makes it effective against a variety of bacterial species that can cause infections in the eyes, leading to conditions such as conjunctivitis. While Chloramphenicol has broad-spectrum activity and could theoretically be used for other types of infections, its primary and most recognized application is in treating bacterial infections, especially in situations where other antibiotics may not be suitable. Given its potential side effects and the availability of newer antibiotics, its use has become more limited, but it remains a key treatment option for specific bacterial eye infections. Other options like respiratory infections are more commonly treated with antibiotics that have a more targeted action for upper and lower respiratory pathogens, and viral or fungal infections are inherently resistant to treatment with an antibiotic like Chloramphenicol. This specificity reinforces the appropriateness of the answer regarding its primary use.

2. What conditions is Dopamine typically used to treat?

A. Hypertension and diabetes

B. Hypertension, CHF, and cardiogenic shock

C. Heart arrhythmias

D. Severe allergic reactions

Dopamine is primarily used to treat conditions related to inadequate blood flow and heart function, particularly in critical care settings. It acts as an inotropic agent, which means it increases the strength of the heart's contractions and can help improve cardiac output. In the context of cardiogenic shock, dopamine can be vital as it helps to restore circulation when the heart is unable to pump effectively. It is also utilized in congestive heart failure (CHF) because it can improve myocardial contractility and renal perfusion, thus supporting overall heart function and organ health. Additionally, dopamine may be administered in cases of hypotension, such as seen in severe sepsis or during shock states, as it can cause vasodilation and increase heart rate, aiding in circulation. While the other options presented involve conditions that are important in clinical practice, they do not align with the primary therapeutic applications of dopamine. For instance, hypertension is typically managed with different classes of medications, and although dopamine can influence blood pressure, it is not the mainstay treatment for hypertension itself. Heart arrhythmias are generally treated with antiarrhythmic medications rather than dopamine. In severe allergic reactions, epinephrine is the preferred agent, while dopamine is not indicated for this condition. Thus

3. What possible side effect may occur if Reglan is given too quickly?

- A. Severe headache**
- B. Chest pain**
- C. Anxiety**
- D. Nausea**

Reglan, or metoclopramide, is a medication commonly used to treat nausea, vomiting, and gastroparesis. One of the possible side effects associated with administering Reglan too quickly is the onset of anxiety. Rapid intravenous administration can lead to an increased risk of acute dystonic reactions, which can manifest as anxiety or agitation among other symptoms. The connection between rapid infusion and heightened anxiety is particularly important in clinical practice, as careful administration helps minimize adverse effects. While severe headache, chest pain, and nausea can occur as side effects of various medications or conditions, they are not specifically linked to the rapid administration of Reglan. Understanding the nuances of how medications should be administered—particularly the speed of administration—helps prevent these potentially serious side effects. Therefore, recognizing anxiety as a direct consequence of fast administration highlights the importance of adhering to recommended infusion rates for safe patient care.

4. In a quality process, which of the following components is NOT included?

- A. Structure**
- B. Outcomes**
- C. Diagnosis**
- D. Process**

In the context of quality processes, particularly in healthcare, the components typically consist of structure, process, and outcomes. Structure refers to the attributes of the settings where care occurs, including facilities and equipment, as well as the qualifications of healthcare professionals. This aspect focuses on the organizational aspects that contribute to the quality of care. Process encompasses the methods and activities through which healthcare is delivered. This includes the interactions between healthcare providers and patients, the procedures used for treatment, and the protocols followed during care delivery. Outcomes measure the results of healthcare services, reflecting the effectiveness of the care provided. This could involve patient recovery rates, the quality of life after treatment, and other indicators that reflect the results achieved through healthcare interventions. While diagnosis is certainly important within the healthcare framework, it is not considered a standalone component of the quality process in this specific context. Instead, diagnosis falls under the broader category of clinical activities and serves as a foundation for determining appropriate interventions and expected outcomes, but it does not directly categorize the quality of care itself as structure, process, or outcome does. Therefore, diagnosing is not recognized as a component of the quality process framework.

5. What is the significance of potassium replacement in high doses of Lasix?

- A. To prevent kidney damage**
- B. To avoid hypokalemia**
- C. To enhance medication effects**
- D. To reduce fluid retention**

Potassium replacement is particularly significant when high doses of Lasix (furosemide) are used due to the risk of hypokalemia, which is a condition characterized by low potassium levels in the blood. Lasix is a potent loop diuretic that promotes the excretion of sodium and water through the kidneys. However, this increased diuresis can also lead to the loss of electrolytes, including potassium. When patients are on high doses of Lasix, the risk of hypokalemia becomes greater due to the increased urinary excretion of potassium. Hypokalemia can lead to serious complications, such as cardiac arrhythmias, muscle weakness, and metabolic disturbances. Therefore, monitoring potassium levels and providing potassium replacement as necessary is crucial in patients receiving high doses of Lasix to maintain electrolyte balance and prevent these potentially harmful consequences. While other considerations, such as kidney protection, medication efficacy, and fluid retention, are important in the context of Lasix therapy, the primary concern when administering high doses is ensuring that potassium levels remain within an appropriate range to avoid the risks associated with its deficiency.

6. What is a common symptom of a thrombus in the subclavian region?

- A. High fever**
- B. Palpitations**
- C. Tingling in the arm**
- D. Muscle cramping**

Tingling in the arm is a common symptom of a thrombus in the subclavian region due to the interference of normal blood flow to the extremity. When a thrombus forms in this area, it can compress nearby nerves or obstruct venous return, leading to neurological symptoms such as paresthesia, which often presents as tingling or a 'pins and needles' sensation. This symptom can be indicative of compromised circulation or nerve involvement as a result of the thrombus. While high fever, palpitations, and muscle cramping can occur in various other medical conditions, they are not typically associated with a thrombus specifically located in the subclavian region. High fever suggests an infectious process rather than a thrombotic event. Palpitations relate more to heart rhythm issues, and muscle cramping often signifies problems with electrolyte balance or muscle fatigue rather than direct effects from a thrombus in this particular anatomical area. Therefore, tingling in the arm is correctly identified as the symptom connected to a thrombus in the subclavian region.

7. What is a notable effect of Zyvox (linezolid) on the body?

A. Myelosuppression

B. Nephrotoxicity

C. Ototoxicity

D. Hepatotoxicity

Linezolid, known by its brand name Zyvox, is an antibiotic primarily used to treat infections caused by Gram-positive bacteria, including some strains resistant to other antibiotics. One notable effect of linezolid is its potential to cause myelosuppression, which refers to the reduction in the production of blood cells due to the inhibition of bone marrow activity. Myelosuppression can manifest as thrombocytopenia (low platelets), anemia (low red blood cells), and leukopenia (low white blood cells). This effect is clinically significant because it can lead to increased risks for bleeding, fatigue, and vulnerability to infections. The risk of myelosuppression is particularly elevated in patients receiving linezolid for extended periods or in those with pre-existing conditions that may compromise bone marrow function. Understanding this side effect is crucial for healthcare providers, as they must monitor blood counts regularly in patients receiving linezolid, especially if the treatment extends beyond two weeks. Awareness of myelosuppression helps in timely interventions and adjustments in therapy if needed, ensuring patient safety while managing their infections.

8. Which condition can Rocephin effectively treat due to its ability to cross the blood-brain barrier?

A. The common cold

B. Meningitis

C. Urinary tract infections

D. Skin infections

Rocephin, known generically as ceftriaxone, is a broad-spectrum cephalosporin antibiotic that is especially noted for its ability to penetrate the central nervous system and effectively cross the blood-brain barrier. This characteristic makes it particularly useful in treating infections that affect the central nervous system, such as meningitis. Meningitis is a serious and potentially life-threatening condition that involves inflammation of the protective membranes covering the brain and spinal cord, often caused by bacterial infection. When treating bacterial meningitis, it is crucial to use antibiotics that can reach sufficient concentrations in the cerebrospinal fluid, allowing for effective eradication of the infecting organisms. Rocephin is well-suited for this purpose due to its pharmacokinetic properties, which facilitate its distribution into the CNS. In contrast, other conditions such as the common cold, urinary tract infections, and skin infections do not typically require antibiotic treatment that penetrates the blood-brain barrier, as these infections are usually localized and do not involve the central nervous system. Therefore, Rocephin's role in effectively treating meningitis is a prime example of its significance in managing severe infections where central nervous system involvement is critical.

9. What should be used to prepare the site for spinal catheter dressing changes?

- A. Alcohol wipes**
- B. Chlorhexidine**
- C. iodophor**
- D. Hydrogen peroxide**

Chlorhexidine is the preferred choice for preparing the site for spinal catheter dressing changes due to its broad-spectrum antimicrobial properties. It effectively reduces the presence of bacteria on the skin, significantly decreasing the risk of infections, which is particularly critical when managing invasive devices such as spinal catheters. Chlorhexidine has a residual effect, meaning it continues to work over time, offering prolonged protection even after application. Using alternatives like alcohol wipes can help reduce bacteria but may not provide the same level of persistent action as chlorhexidine. Iodophor is effective for skin preparation but may not be as potent or last as long in maintaining asepsis. Hydrogen peroxide can be irritating to the skin and is less effective as an antiseptic for this purpose. Therefore, chlorhexidine is the optimal choice for ensuring the highest level of site preparation during dressing changes for spinal catheters.

10. Which dextrose concentration is known to support Candida albicans?

- A. 5% Dextrose**
- B. TPA**
- C. 10% Dextrose**
- D. Normal Saline**

The correct choice is 10% Dextrose, as higher concentrations of dextrose, particularly around 10% and greater, provide an environment that supports the growth of fungi such as Candida albicans. Candida is a type of yeast that thrives in nutrient-rich situations, and glucose serves as a primary energy source for its metabolism. In clinical settings, particularly those involving intravenous solutions, the concentration of dextrose can significantly influence the growth of yeast and other microorganisms. In contrast, lower concentrations, like 5% dextrose or solutions like normal saline, do not provide enough carbohydrate for the proliferation of Candida. TPA, or total parenteral nutrition, can contain various concentrations of dextrose depending on its formulation, but it is not specified as an option that primarily supports Candida growth. Therefore, 10% Dextrose is identified as the concentration that creates an advantageous condition for the growth of Candida albicans.