

Pharmacological And Parenteral Therapies Quiz

ATI Pharmacological and Parenteral Therapies Quiz 2 Versions Answered 2021/2022.

A client with a digoxin level of 2.4 ng/ml has a heart rate of 39. The health care provider prescribes atropine sulfate. Which of the following best describes the intended action of atropine for this client?

Select one:

- a. To reduce peristalsis and urinary bladder tone.
- b. To stimulate the SA node and sympathetic fibers to increase the rate.
- c. To accelerate the heart rate by interfering with vagal impulses.**
- d. To dry oral and tracheobronchial secretions. - c. To accelerate the heart rate by interfering with vagal impulses.

Atropine does not have a direct effect on the SA node.

A client is prescribed digoxin 1mg by mouth QID. The client states that the objects in his room have a yellowish tinge and he is nauseated. Select the most appropriate nursing action at this time.

Select one:

- a. Count the apical pulse; if it is regular and above 60, administer the drug as ordered.
- b. Hold the medication and count the apical pulse before the next dose is to be given.
- c. Administer the medication and observe the client for further nausea.
- d. Hold the drug and call the health care provider.** - d. Hold the drug and call the health care provider.

This client is showing signs of digitalis toxicity. The most appropriate action is to hold the drug and call the health care provider. Severe arrhythmia may develop if action is not taken.

A client diagnosed with preterm labor has been prescribed nifedipine. The client asks the nurse why this particular medication has been prescribed. Which of the following statements by the nurse is correct?

Select one:

- a. To relax your muscles of your uterus**
- b. To lower your blood pressure
- c. To promote development of your baby's lungs
- d. To decrease the intensity of your pain - a. To relax your muscles of your uterus

The use of nifedipine for the treatment of preterm labor is an unlabeled use of the drug. Nifedipine, a calcium channel blocker, is more commonly used to treat high blood pressure and heart disease. Smooth muscle tissue, like the uterus, needs calcium to contract. Nifedipine blocks

Pharmacological and Parenteral Therapies Quiz: Test Your Knowledge!

Are you a healthcare professional looking to sharpen your skills in pharmacological and parenteral therapies? Or perhaps a student diligently studying these crucial aspects of medicine? This

comprehensive quiz will test your understanding of drug administration routes, medication calculations, and the intricacies of parenteral therapy. Whether you're a seasoned expert or just beginning your journey, this interactive assessment will help identify areas for improvement and solidify your knowledge. Prepare to challenge yourself with a range of questions designed to assess your understanding of pharmacological principles and the safe and effective administration of parenteral medications. Let's dive in!

Section 1: Pharmacological Principles

This section will assess your understanding of basic pharmacological concepts relevant to medication administration.

1.1 Drug Absorption and Distribution

Question 1: Which of the following factors significantly influence drug absorption? (Select all that apply)

- a) Route of administration
- b) Blood flow to the site of administration
- c) Lipid solubility of the drug
- d) Patient age and health status
- e) The color of the medication

Answer: a, b, c, d

Explanation: All selected options significantly influence drug absorption. The color of the medication (e) is irrelevant to absorption.

1.2 Drug Metabolism and Excretion

Question 2: What is the primary organ responsible for drug metabolism?

- a) Kidneys
- b) Liver
- c) Lungs
- d) Intestines

Answer: b) Liver

Explanation: The liver is the primary site of drug metabolism, although other organs contribute to a lesser extent.

1.3 Pharmacodynamics and Pharmacokinetics

Question 3: Briefly explain the difference between pharmacodynamics and pharmacokinetics.

Answer: Pharmacodynamics describes what the drug does to the body (its effects), while pharmacokinetics describes what the body does to the drug (absorption, distribution, metabolism, and excretion).

Section 2: Parenteral Therapies

This section focuses on the safe and effective administration of medications via parenteral routes.

2.1 Intravenous (IV) Therapy

Question 4: What are the potential complications associated with IV therapy? (List at least three)

Answer: Phlebitis, infiltration, extravasation, infection, air embolism, thrombus formation.

2.2 Intramuscular (IM) Injections

Question 5: Describe the proper technique for administering an intramuscular injection using the Z-track method.

Answer: The Z-track method involves pulling the skin and subcutaneous tissue laterally before inserting the needle. This creates a zigzag path, preventing the medication from leaking back along the needle track and potentially causing irritation or staining.

2.3 Subcutaneous Injections

Question 6: What are suitable sites for subcutaneous injections?

Answer: The outer aspect of the upper arm, the anterior thigh, the abdomen (at least 2 inches from the umbilicus), and the upper back.

Section 3: Medication Calculations and Safety

This section assesses your ability to perform medication calculations and understand safety procedures.

3.1 Dosage Calculations

Question 7: A physician orders 500mg of a medication. The medication is available as 250mg tablets. How many tablets should be administered?

Answer: 2 tablets

3.2 Medication Errors and Prevention

Question 8: List three strategies to prevent medication errors.

Answer: The “six rights” of medication administration (right patient, right medication, right dose, right route, right time, right documentation); independent double-checking of medication calculations; utilizing barcode scanning technology.

Conclusion

This quiz provided a comprehensive assessment of your knowledge in pharmacological and parenteral therapies. Regularly reviewing these concepts and practicing safe medication administration techniques are crucial for healthcare professionals. Continuous learning and staying updated on best practices are vital for ensuring patient safety and providing optimal care. Remember to always consult official guidelines and resources for the most up-to-date information.

FAQs

1. Where can I find more resources to improve my understanding of pharmacological and parenteral therapies?

You can find numerous resources online, including reputable medical websites, professional journals, and educational platforms offering courses and webinars on these topics. Your local library may also have relevant textbooks and other materials.

2. Are there any specific certifications related to parenteral medication administration?

Yes, depending on your profession and location, various certifications might be available. Look for certifications from relevant professional organizations in your area.

3. What should I do if I make a medication error?

Immediately report the error to your supervisor and follow your institution's established protocol for medication error reporting and incident management. Accurate documentation is key.

4. How often should I review my knowledge of pharmacological and parenteral therapies?

Regular review is essential, ideally as part of your continuing professional development. The frequency depends on your role and the complexity of your work, but a yearly review is often recommended.

5. Can this quiz be used for educational purposes in a healthcare setting?

Yes, this quiz can serve as a valuable tool for education and training purposes within a healthcare setting. However, it should be complemented by comprehensive instruction and hands-on practice under the supervision of experienced professionals.

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one million per year—are rising because of increased resistance to the old, inexpensive drugs. Although effective new drugs called artemisinins are available, they are unaffordable for the majority of the affected population, even at a cost of one dollar per course. *Saving Lives, Buying Time: Economics of Malaria Drugs in an Age of Resistance* examines the history of malaria treatments, provides an overview of the current drug crisis, and offers recommendations on maximizing access to and effectiveness of antimalarial drugs. The book finds that most people in endemic countries will not have access to currently effective combination treatments, which should include an artemisinin, without financing from the global community. Without funding for effective treatment, malaria mortality could double over the next 10 to 20 years and transmission will intensify.

pharmacological and parenteral therapies quiz: Pain Management and the Opioid Epidemic National Academies of Sciences, Engineering, and Medicine, Health and Medicine Division, Board on Health Sciences Policy, Committee on Pain Management and Regulatory Strategies to Address Prescription Opioid Abuse, 2017-09-28 Drug overdose, driven largely by overdose related to the use of opioids, is now the leading cause of unintentional injury death in the United States. The ongoing opioid crisis lies at the intersection of two public health challenges: reducing the burden of suffering from pain and containing the rising toll of the harms that can arise from the use of opioid medications. Chronic pain and opioid use disorder both represent complex human conditions affecting millions of Americans and causing untold disability and loss of function. In the context of the growing opioid problem, the U.S. Food and Drug Administration (FDA) launched an Opioids Action Plan in early 2016. As part of this plan, the FDA asked the National Academies of Sciences, Engineering, and Medicine to convene a committee to update the state of the science on pain research, care, and education and to identify actions the FDA and others can take to respond to the opioid epidemic, with a particular focus on informing FDA's development of a formal method for incorporating individual and societal considerations into its risk-benefit framework for opioid approval and monitoring.

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pharmacological and parenteral therapies quiz: Anesthetic Pharmacology Alex S. Evers, Mervyn Maze, Evan D. Kharasch, 2011-03-10 In recent years our understanding of molecular

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