



Name:

Date:

Student Exploration: Drug Dosage

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: controlled release, dosage, drug, overdose, target organ

Prior Knowledge Question (Do this BEFORE using the Gizmo.)

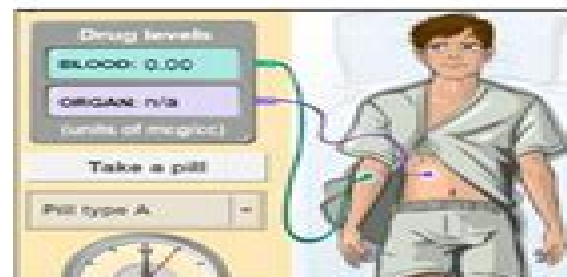
Suppose you take aspirin for a headache. What happens after you swallow the pill?

it goes to ur stomach and dissolves for the effect to work

Gizmo Warm-up

A **drug** is a substance that causes changes in how your body functions. When you swallow a pill, the pill dissolves in your digestive system and the drug is absorbed into your bloodstream. Many drugs are designed to affect specific **target organs**.

The *Drug Dosage* Gizmo allows you to monitor the concentration of drugs in the bloodstream and target organ of a patient. To begin, check that **Pill Type A** is selected. Pill A is a general painkiller similar to aspirin. Click **Play** (▶) and press the **Take Pill** button.



1. Click **Pause** (⏸) after about 10 minutes of simulated time. In the **Drug levels** panel, observe the concentration of drug in the blood. The unit of concentration is micrograms per cubic centimeter (mcg/cc).

Has any drug entered the bloodstream after 10 minutes?

no

2. Change the **simulation speed** to 2, and press **Play**. Click **Pause** when the **BLOOD** value starts to increase. How long does it take for the drug to reach the blood?

30 ish minutes

3. Click **Play**, and then click **Pause** when the patient starts to smile. Approximately what concentration of drug is needed to relieve the patient's pain?

39-40 minutes

Student Exploration Drug Dosage Answers

Karish Kb AY



Student Exploration Drug Dosage Answers:

New Realities of the Twenty-first Century, Part 1 Prophet Wildman, 2017-02-07 New Realities of the Twenty first Century Part 1 by Prophet Wildman The psychic parapsychic experience in the supernatural is one that is not readily understood or accepted by the masses After enjoying the gift of psychic future predictive awareness for more than fifty years Prophet Wildman had a deep understanding of the psychic and parapsychic experience However it wasn't until 2008 when he began receiving Holy subject Tribulation awareness as a precognitive psychic medium that he really began to delve deeper into this relatively unknown subject and explore psychic and parapsychic experiences as they related to the supernatural and Christianity Prophet Wildman wows his readers with first hand experiences both from the perspective of being Christian and of being a psychic medium while also providing a comprehensive dissection and decoding of the Tribulation event as it relates to the prophecy Wildman's deeply personal experiences along with factual statements and others first hand experiences provide the reader with a comprehensive read that will strengthen one's faith in Christ and Christianity while opening up rarely explored doors to the supernatural psychic and parapsychic worlds Explore the unknown with Prophet Wildman as he weaves his unwavering Christian beliefs with everything from extraterrestrials and ultraterrestrials to vampires UFOs and government cover ups An open mind and a strong religious conviction are all that's needed to begin searching and discovering some of the biggest mysteries of our time **Nursing Times** ,1985 **Essentials of Clinical Pharmacology in Nursing** Bradley R. Williams, Charold Lee Morris Baer, 1994 Concise presentation of basic pharmacologic information for the students Units one and two address fundamentals of pharmacology and drug administration Units three to 16 group drugs by therapeutic classification with each chapter covering pharmacokinetics pharmacodynamics pharmacotherapeutics adverse drug reactions and nursing process steps in administering drugs The disk contains questions and answers for self study *Williams' Basic Nutrition & Diet Therapy: First South Asia Edition - E-Book* Staci Nix McIntosh, 2016-11-26 For concise need to know coverage of the most up to date topics and research in nutritional care turn to Williams Basic Nutrition Diet Therapy This market leading text provides coverage of hot topics emerging trends and cutting edge research plus all the essentials for providing the best nutrition care And with its conversational writing style vivid illustrations and wide array of reader friendly features you can easily understand how the concepts in the book can be applied in clinical practice Case studies with accompanying questions for analysis in the clinical care chapters focus your attention on related patient care problems Cultural Considerations boxes discuss how a patient's culture can affect nutritional concepts in practice Clinical Applications and For Further Focus boxes highlight timely topics and analyze concepts and trends in depth Bulleted chapter summaries review highlights from the chapter and help you see how the chapter contributes to the book's big picture Diet therapy guidelines include recommendations restrictions and sample diets for major clinical conditions Drug Nutrient Interactions boxes highlight important safety information and cover topics such as

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