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ATI Tutorial: Dosage Calculation and Safe Medication Administration 3.0
Module: Critical Care Medications

Time Spent: 00:21:38

Table of contents

- Critical Care Medications: Overview
- Intravenous fluid infusions
- Calculating flow rates for large-volume IV bolus
- Activity 1
- Continuous IV medication infusions
- Calculating continuous IV medication infusions
- Activity 2
- Titrating continuous IV medication infusions
- Calculating titrated

Calculator

Case studies



2

Step 1
What is the unit of measurement the nurse should calculate? (Place the unit of measure being calculated on the left side of the equation.)
X tablet(s) =

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ATI Tutorial: Dosage Calculation and Safe Medication Administration 3.0
Module: Critical Care Medications

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Calculator

Case studies

If there are 0.175 mg/tablet and the prescribed amount is 350 mcg, it makes sense to administer 2 tablets. The nurse should administer levothyroxine 2 tablets PO daily.

A nurse is preparing to administer 0.9% NaCl bolus. The drop factor of the manual IV tubing is 15 gtt/mL. The nurse should set the manual IV infusion to deliver how many gtt/min?
(Review the MAR. Round the answer to the nearest whole number.)

125

Step 1
What is the unit of measurement the nurse should calculate? (Place the unit of measure being calculated on the left side of the equation.)
X gtt/min =

Step 2

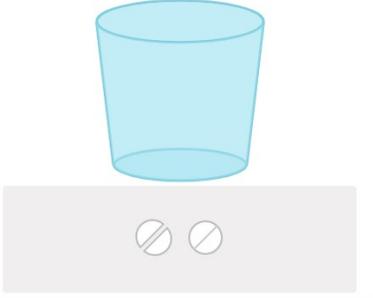
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Calculator Case studies Close X



2

Step 1

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Module: Critical Care Medications CLOSE

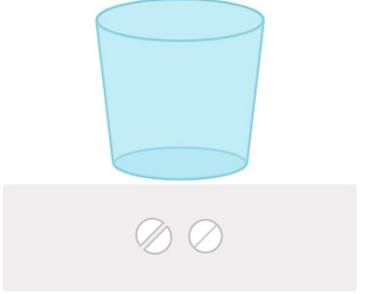
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Calculator Case studies Close X

LAMOTRIGINE
200 mg
56 TABLETS

SWALLOW WHOLE,
CHEW OR DISPERSE
IN WATER



1

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Calculator

Case studies

A nurse is calculating the dosage of haloperidol. How many milliliters should the nurse administer? (Review the MAR and medication label. Round the answer to the nearest hundredth.)



0.8

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Calculator

Case studies



2

Step 1



CLOSE

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Calculator

Case studies

Signature _____ Date _____

A nurse is converting a client's weight from pounds to kilograms. What is the client's weight in kilograms?
(Review the MAR. Round the answer to the nearest tenth.)

62.7

Step 1
What is the unit of measurement the nurse should calculate? (Place the unit of measure being calculated on the left side of the equation.)
X kg =

Step 2
Find the ratio in the item that contains the same unit as the unit being calculated. (Place the ratio on the right side of the equation, ensuring that the unit in the numerator matches the unit being calculated.)