

Case studies

4/29/20X	cetirizine 12 mg bid now; repeat in 24 hr		
4/29/20X	Hydralazine 5 mg IV bolus STAT		
	PRN Medications		
	IV Therapy		
4/29/20X	Ampicillin 500 mg IV bolus one time		
4/29/20X	Magnesium Sulfate 4 g IV bolus now to run over 30 min		
4/29/20X	Magnesium Sulfate 2 g/hr by continuous IV infusion		
4/29/20X	Lactated Ringers 125 mL/hr by continuous IV infusion		
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.)

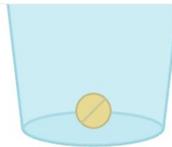
64.1



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

CLOSE

Case studies



1

Step 1

Case studies

Step 6
Determine if the amount to administer makes sense.

If there are 30 mg/tablet and the prescribed amount is 30 mg, it makes sense to administer 1 tablet. The nurse should administer nifedipine 1 tablet PO every 8 hr.

A nurse is calculating the dosage of magnesium sulfate IV bolus. Available is magnesium sulfate 4 g in D₅W 50 mL. The nurse should set the IV pump to deliver how many mL/hr?

(Review the MAR. Round the answer to the nearest whole number.)

100

Step 1

Type here to search

62°F 10:34 PM 10/11/2021

Case studies

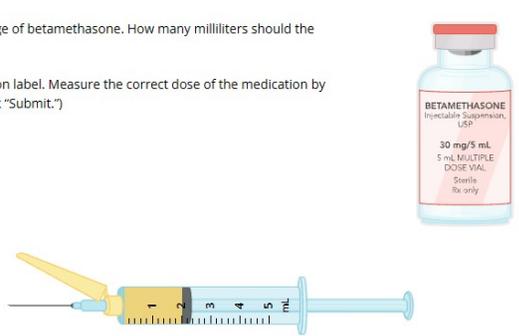
Tutorial: Dosage Calculation and Safe Medication Administration 3.0
Module: Critical Care Medications

Time Spent: 00:26:21

Case studies

A nurse is calculating the dosage of betamethasone. How many milliliters should the nurse administer?

(Review the MAR and medication label. Measure the correct dose of the medication by dragging the syringe. Then click "Submit.")



2

Type here to search

62°F 10:38 PM 10/11/2021

Calculator

Time Spent: 00:27:34

Case studies

Step 5
Round if necessary.

Step 6
Determine if the amount to administer makes sense. If there are 30 mg/5 mL and the prescribed amount is 12 mg, it makes sense to administer 2 mL. The nurse should administer betamethasone 2 mL IM now and then again in 24 hr.

A nurse is calculating the IV flow rate for ampicillin. Available is ampicillin 500 mg in 0.9% NaCl 100 mL to run over 30 min. The nurse should administer how many mL/hr?

(Review the MAR. Round the answer to the nearest whole number.)

200

Windows taskbar: Type here to search, 62°F, 10:40 PM 10/11/2021

Calculator

Time Spent: 00:46:08

Case studies

A nurse is calculating the dosage of hydralazine. How many milliliters should the nurse administer?

(Review the MAR and medication label. Round the answer to the nearest hundredth.)



0.25

Windows taskbar: Type here to search, 62°F, 10:58 PM 10/11/2021



CLOSE

Time Spent: 00:47:50



Case studies

Round if necessary.

Step 6

Determine if the amount to administer makes sense.

If the amount prescribed is 100 mL to infuse over 30 min, it makes sense to administer 200 mL/hr. The nurse should set the IV pump to deliver ampicillin over 30 min at 200 mL/hr.



A nurse is calculating the dosage of magnesium sulfate IV by continuous infusion. Available is magnesium sulfate 20 g in D₅W 500 mL. The nurse should set the IV pump to deliver how many mL/hr?

(Review the MAR. Round the answer to the nearest whole number.)



2000