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ati Tutorial: Dosage Calculation and Safe Medication Administration 3.0
Module: Medication Administration

Time Spent: 00:03:36

Calculator

Case studies

| | | |
|-----------|--|------|
| 8/20/08 | Magnesium Sulfate 2 g/hr by continuous IV infusion | |
| 8/20/08 | 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

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.)

8:51 PM 5/23/2021

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Time Spent: 00:04:20

Calculator

Case studies

Rx only

1

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Time Spent: 00:05:00

Calculator

Case studies

round it necessary.

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 D₂W 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
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 mL/hr =

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Time Spent: 00:05:43

Calculator

Case studies

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

BETAMETHASONE
Injectable Suspension,
USP
30 mg/5 mL
5 mL MULTIPLE
DOSE VIAL
Sterile
Rx only

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 mL =

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Calculator

Case studies

Close X

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

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 mL/hr =

Windows taskbar: 8:53 PM 5/23/2021

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Time Spent: 00:07:27

Calculator

Case studies

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.)

50

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 mL/hr =

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.)

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Module: Medication Administration

Time Spent: 00:08:11

Calculator

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

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 mL =

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