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

Time Spent: 00:04:42

Calculator

Case studies

Electronic Signature in/None MS (000)-Maggie Shelton RN Date 10/7/XX

A nurse is calculating the flow rate of 0.9% NaCl IV by continuous infusion. The nurse should set the IV pump to deliver how many mL/hr?
(Review the MAR and flow sheet. Round the answer to the nearest whole number.)

83

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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11:50 PM 10/13/2021

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

Time Spent: 00:05:49

Calculator

Case studies

A nurse is calculating the dosage of albuterol sulfate. How many milliliters should the nurse place in the nebulizer?
(Review the MAR, flow sheet, and medication label. Round the answer to the nearest tenth.)

20 mL with calibrated dropper
5 mg/mL

Albuterol Sulfate, USP Solution for Inhalation, 0.5%

*Potency expressed as albuterol

ATTENTION PHARMACIST: Detail "patient's instructions for use" from package insert and dispense with solution.

Rx only

0.5

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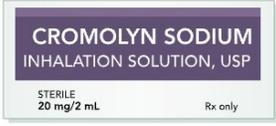
ati Tutorial: Dosage Calculation and Safe Medication Administration 3.0
Module: Critical Care Medications

Time Spent: 00:07:13

Case studies

sulfate 0.5 mL via nebulizer.

A nurse is calculating the dosage of cromolyn. How many milliliters should the nurse place in the nebulizer?
(Review the MAR, flow sheet, and medication label. Round the answer to the nearest whole number.)



2

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

Time Spent: 00:17:27

Case studies

A nurse is calculating the dosage of methylprednisolone sodium succinate. How many milliliters should the nurse administer?
(Review the MAR, flow sheet, and medication label. Round the answer to the nearest hundredth. Measure the correct dose of the medication by dragging the syringe. Then click "Submit.")



0.48

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Time Spent: 00:20:28

Calculator

Case studies

If there are 40 mg/mL and the prescribed dose is 1.5 mg/kg/day, it makes sense to give 0.48 mL. The nurse should administer methylprednisolone sodium succinate 0.48 mL IV bolus every 12 hr.

A nurse is preparing to administer acetaminophen. The recommended dose of acetaminophen is 10 to 15 mg/kg/dose. How does the prescribed amount compare to the recommended dosage range? (Review the MAR and flow sheet.)

- A Greater than the recommended dosage range
- B Less than the recommended dosage range
- C Within the recommended dosage range
- D Unable to determine with information provided



CLOSE

Time Spent: 00:23:10

Calculator

Case studies

If the safe dose range is 2.04, 2.44, 2.50, 1.0, 1.7 mg/grade and the prescribed dose is 300 mg/grade, it makes sense that the prescribed dose is within the safe dose range.

A nurse is calculating the dosage of acetaminophen. Available is acetaminophen liquid 160 mg/5 mL. How many milliliters should the nurse administer? (Review the MAR and flow sheet. Round the answer to the nearest tenth.)

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



CLOSE

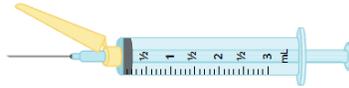
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- Calculator
- Case studies
- Checkmark
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- Calculator

Case studies

Close X

(Review the MAR and flow sheet. Round the answer to the nearest tenth. Measure the correct dose of the medication by dragging the syringe. Then click "Submit.")



✓ 1.3

This syringe holds up to 3 mL and is appropriate for administering this medication because the dose is less than 3 mL. The 3 mL syringe is calibrated 0.1 mL increments with long marks at 0.5 mL increments. The correct dose is three small lines past the longer 1.0 mark.

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.)