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Dropbox Section - LCN Edvance

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

Time Spent: 00:04:03

Calculator

Case studies

EMR

MAR

Order date	Stop date	Scheduled Medication	0700-1900	1900-0700
4/9/XX		Atenolol 50 mg PO daily	0800	
4/9/XX		Atenolol 50 mg PO daily	0900	
4/9/XX		Atenolol 50 mg PO every 12 hr	0900	2100
4/9/XX		Enoxacin 300 mg PO daily	1100	
4/9/XX		Enoxacin 300 mg PO every 12 hr	0800	2000

PHN Medications

IV Therapy

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.)

49.1

Step 1

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### Question 1

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Case studies

"Submit."

Brand Name  
Atenolol  
Capsules  
300 mg

1

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### Question 2

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Calculator

## Case studies

What is the unit of measurement the nurse should calculate to administer? (Review the MAR and medication label. Round the answer to the nearest tenth.)



1.3

**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.)  
 $X \text{ mL} =$

**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.)  
 $X \text{ mL} = \frac{1 \text{ mL}}{80 \text{ mg}}$

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Question 3

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### Case studies

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



15

**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.)  
 $X \text{ mL} =$

**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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## Question 4

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### Case studies

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



20

**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.)  
 $X \text{ mL} =$

**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.)  
 $X \text{ mL} = \frac{1 \text{ mL}}{10 \text{ mg}}$

**Step 3**  
Place your answer in the item that corresponds to the item on the right side of the equation along with any needed conversion factors.

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## Question 5

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Calculator

## Case studies

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

**Enfuvirtide**  
for injection  
90 mg/mL

Single-Use Vial  
Each contains 108 mg of enfuvirtide for a possible delivery of 90 mg.  
For intramuscular use after reconstitution.  
Store at 20°C (77°F) before reconstitution. (See package insert.)  
Usual dosage: See insert.  
Reconstitute with 1 mL Sterile Water.  
Use immediately.



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.)  
 $X \text{ mL} =$

**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.)  
 $X \text{ mL} = \frac{1 \text{ mL}}{90 \text{ mg}}$

Question 6

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## Case studies

Determine if the amount to administer makes sense.  
If there are 90 mg/mL and the prescribed amount is 90 mg, it makes sense to administer 1 mL. The nurse should administer enfuvirtide 1 mL subcutaneous every 12 hr.

A nurse is reading enfuvirtide label. Which of the following is accurate information from this label?  
(Select all that apply.)



Single-Dose Vial  
Each contains 100 mg of enfuvirtide to provide delivery of 90 mg.  
For subcutaneous use after reconstitution.  
Store at 25°C (77°F) before reconstitution. (See package insert.)  
Use Diluents: See Insert.  
Reconstitute with 1 mL Sterile Water.  
Use immediately.

- A Mix with 0.9% NaCl.
- B Use immediately.
- C Dilute with 2 mL fluid.
- D Final dilution is 90 mg/mL.
- E Store at 25° C (77° F) before mixing.
- F Use for subcutaneous injection.

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## Question 7