



CLOSE

Time Spent: 00:01:10

Calculator

## Case studies

### AIDS

Relevant Modules:  
Safe Dosage, Medication Administration, Oral Medications, Injectable Medications, Dosage by Weight, Powdered Medications



CLOSE

Time Spent: 00:01:25

Calculator

## Case studies

### EMR

### MAR

| Medication Administration Record |           |  |           |                    |  |
|----------------------------------|-----------|--|-----------|--------------------|--|
| Health Care Providers            |           | Client                                       | Sex       | Female             |  |
|                                  |           | DOB: 8/23/2008                               | Age       | 43 yr              |  |
|                                  |           | Admit: 4/2/2023                              | HL        | 5'8.4 in           |  |
|                                  |           | MNI: 824211                                  | WT        | 128 lb             |  |
|                                  |           | Physician: Sullivan, Diane                   | Allergies | No known allergies |  |
| Date: 4/2/2023                   |           |  |           |                    |  |
| Order Date                       | Stop Date | Scheduled Medications                        | 0700-1900 | 1900-0700          |  |
| 4/2/2023                         |           | Aspirin 325 mg PO daily                      | 0800      |                    |  |
| 4/2/2023                         |           | Ribocicab 100 mg PO daily                    | 0800      |                    |  |
| 4/2/2023                         |           | Abacavir 300 mg PO every 12 hr               | 0900      | 2100               |  |
| 4/2/2023                         |           | Emtricitabine 200 mg PO daily                | 1700      |                    |  |
| 4/2/2023                         |           | Ertacritabine 90 mg subcutaneous every 12 hr | 0800      | 2000               |  |
| PRN Medications                  |           |  |           |                    |  |
| IV Therapy                       |           |  |           |                    |  |
| Signature                        |           |  | Date      |                    |  |

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Module: Medication Administration

Time Spent: 00:02:35

Calculator

## Case studies

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**  
What is the unit of measurement the nurse should calculate? (Place the unit of measure being calculated on the left side of the equation.)  
 $X \text{ kg} =$

**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.)

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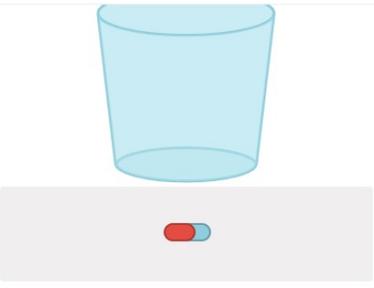
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Calculator

## Case studies



1

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Module: Medication Administration

Time Spent: 00:04:35

Calculator

### Case studies

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



BRAND NAME  
RITONAVIR  
ORAL SOLUTION  
80 mg per mL  
Shake well before each use  
DO NOT REFRIGERATE  
Use by your best  
expiration date

1.3

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Module: Medication Administration

Time Spent: 00:05:35

Calculator

### Case studies

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



ABACAVIR  
SULFATE  
Oral Solution  
20 mg/mL  
Rx only  
240 mL

15

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Module: Medication Administration

Time Spent: 00:07:07

Calculator

### Case studies

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

**Emtricitabine**  
Oral Solution 10/mg/mL  
170 mL Rx only

Each mL contains 10 mg emtricitabine.  
See package insert for dosage and administration.  
The oral solution should be used within 3 months if stored by patient at 25°C (77° F), excursions permitted to 15-30°C (59-86° F).  
Keep container tightly closed.

20

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Module: Medication Administration

Time Spent: 00:08:28

Calculator

### Case studies

**Enfuvirtide**  
for injection  
90 mg/mL

Single-Use Vial  
Each contains 108 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.)  
Usual dosage: See insert.  
Reconstitute with 1 mL Sterile Water.  
Use immediately.



1

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- Calculator
- Case studies
- Checklist
- Help
- Settings
- Home

## Case studies

Close X

Usual dosage: 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.