

ATI: Drug Calculation & Medication Administration: Case Study: Diabetes

Medication Administration Record					
		Client:	Little, Ron	Sex:	Male
		DOB:	1/2/XX	Age:	52 yr
		Admit:	3/22/XX	Ht:	5 ft 10 in
		MRN:	822648	Wt:	308 lb
		Physician:	Walburn, Kristin	Allergies:	No known allergies
		Date:	3/24/XX		
Order date	Stop date	Scheduled Medications	0700-1900	1900-0700	
3/22/XX		Regular insulin 16 units subcutaneously every AM before breakfast	0730		
3/22/XX		Benzotropine mesylate 3.5 mg PO daily	0900		
3/22/XX		Azithromycin 250 mg PO daily	0800		
3/22/XX		Prednisone 25 mg PO daily with meal	0800		
3/22/XX		Metformin XR 500 mg PO with evening meal		1800	
PRN Medications					
3/22/XX		Acetaminophen 650 mg PO every 6 hr PRN for fever greater than 38.5° C (101.4° F)			
3/22/XX		Ibuprofen 400 mg PO every 8 hr PRN pain			
IV Therapy					
Signature			Date		

1. A nurse is converting a client's weight from pounds to kilograms. What is the client's weight in kilograms?

$$308\text{lb}/2.2\text{kg}=140\text{kg}$$

2. A nurse is calculating the dosage of ibuprofen. How many caplets per dose should the nurse administer?

$$(1\text{cap}/400\text{mg})/(200\text{mg})= 2\text{cap}$$



3. A nurse is preparing the dosage of regular insulin. How many units should the nurse administer?

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

3.5units

4. A nurse is calculating the dosage of benztropine mesylate. How many tablets should the nurse administer?

(Review the MAR, flow sheet, and medication label. Move the number of tablets the nurse should administer into the medication cup. Then click "Submit.")

$(1\text{tab}/3.5\text{mg})/1\text{mg} = 3.5\text{tab}$



5. A nurse is calculating the dosage of azithromycin. How many tablets should the nurse administer?

$650\text{mg}/250\text{mg}=2.6\text{mg}$



6. A nurse is calculating the dosage of prednisone. How many tablets should the nurse administer?

(Review the MAR, flow sheet, and medication label. Round the answer to the nearest tenth. Move the number of tablets the nurse should administer into the medication cup. Then click "Submit.")

$(25\text{mg})/(1\text{tab}/10\text{mg})=2.5\text{tabs}$

Prednisone
Tablets, USP

10 mg

1,000 TABLETS Rx Only

EACH TABLET CONTAINS:
Prednisone USP (anhydrous), 10 mg

DOSAGE: See package insert for dosage and full prescription information.

DISPENSE in a well-closed container with child resistant closure.

STORE at 20° to 25° C (68 to 77° F)
[See USP controlled room temperature.]

