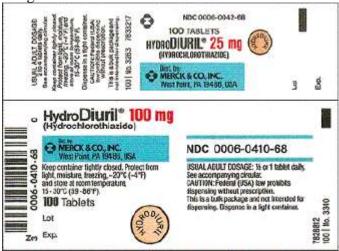
OTHER

1. Order: HydroDIURIL 50 mg, PO, daily Drugs available:



a. Which bottle of HydroDIURIL would you use?

b. How many tablets would you give? (Show your work.)

ANS:

a. HydroDIURIL 25 mg bottle. (You could use HydroDIURIL 100 mg bottle, but the tablet should be scored and broken in half.)

b. BF:
$$\frac{D}{H} \times V = \frac{50}{25} \times 1$$

= 2 tablets
OR
FE: $\frac{H}{V} = \frac{D}{x} = \frac{25}{1} = \frac{50}{x}$
Cross multiply: $25x = 50$
 $x = 2$ tablets
OR
RP: H : V :: D : x
 $25x = 50$
 $x = 2$ tablets
OR (using 100 mg bottle)
DA: tab = $\frac{1 \times 50 \text{ mg}}{100 \text{ mg} \times 1}$
 $= \frac{1}{2}$ tablet

2. Order: hydroxyzine pamoate 0.1 g, PO, q8h Drugs available:



- a. Which bottle of hydroxyzine would you use? Explain.
- b. How many tablets/capsules would you give?

ANS:

a. Vistaril is hydroxyzine pamoate.

Change 0.1 g to milligrams.

a. 0.1 mg = 100 mg (move the decimal point 3 spaces to the right) (.100 g)

b. BF: $\frac{D}{H} \times V \frac{100 \text{ mg}}{100 \text{ mg}} \times 1$ = 1 cap/tap OR FE: $\frac{H}{V} = \frac{D}{x} =$ $\frac{100}{1} = \frac{100}{x} =$ Cross multiply 100x = 100x = 1 cap/tabOR RP: H : V :: D : *x* 100 mg : 1 tab :: 100 mg : *x* tab 100x = 100x = 1 cap/tab**OR** (conversion needed) 10 DA: tablet = $\frac{1 \text{ tab} \times 1000 \text{ mg} \times 0.1 \text{ g}}{100 \text{ mg} \times 1 \text{ g} \times 1}$ $\frac{10 \times 0.1}{1} = 1 \text{ cap/tab}$

3. Order: aspirin gr X, PO, bid

Drug available:



a. Gr X is equal to how many milligrams?b. How many tablets would you give?

ANS:

a. Gr X = 650 mg (Gr = 65, X = 10, 10 × 65 = 650) b. 2 tablets of aspirin per dose (325 mg × 2 = 650 mg)

4. Order: amoxicillin clavulanate (Augmentin) 0.5 g, PO, q8h Drugs available:

+	250mg	500 mg	
1 0029-6075-27		ALVGAMEATTAV Weinstaat station Machine and all and all all all all all all all all all al	And the second s

a. Which bottle would you use?

b. How many tablets would you give?

ANS:

a. Either bottle; 0.5 g = 500 mg

- b. 2 tablets of Augmentin 250 mg; 1 tablet of Augmentin 500 mg
- 5. Order: megestrol acetate 160 mg, PO, in four divided doses Drug available:



a. How many milligrams should the patient receive per dose?b. How many tablets should the patient receive per dose?

ANS:

a. 160 mg \div 4 times a day = 40 mg per dose

- b. BF: $\frac{D}{H} \times V = \frac{40 \text{ mg}}{20 \text{ mg}} \times 1 \text{ tab} = 2 \text{ tablets}$ OR FE: $\frac{H}{V} = \frac{D}{x} = \frac{20}{1} = \frac{40}{x} =$ Cross multiply 20x = 40 x = 2 tabletsOR RP: H: V:: D: x 20 mg: 1 tab:: 40 mg: x tab 20x = 40 x = 2 tabletsOR (No conversion needed) DA: tab = $\frac{1 \times \frac{40}{20 \times 1}}{20 \times 1} = 2 \text{ tablets}$
- 6. Order: minocycline HCl 100 mg, PO, q12h Drug available:



How many capsules would you give per dose?

ANS: 2 capsules

7. Order: Nitrostat 0.6 mg, SL, stat

Drugs	avai	la	ble:	

Nove at Cookshed Room Temperatury 197-0570 (Mr. 1775) (Lee USP). Righteen In artiginet, angeweit santateet. ROOMER AND USE	NGC 0071-0418-04 Rx only 00 Sublingual Tablets	Share at Destinctive Recent Temperature 30° OF C 80° (17°) (see \$19°) Theorem in original, compared excitation 1005Act and \$10	NDC 0071-0417-24 Rx only 193 Sublingual Tablets
See accordance programmed and considered and a second and the second and the second and a second	Nitrostat® (Nitropycerin Tablets, USP)	Der innerstruckung simulation allemanisme Dach tablet constanter (13 sing eits spisseren Gauge frei and zill bergin mit all Ein nacht zill statistere Wertebage 7:12 priverti frei diraktione Wertebage 7:12 priverti frei diraktione sin its a	Nitrostat [®] (Nitroglycerin Tablets, USP)
Specifically Landed at Senig southold for Nerodynews Tableto, Door lightly manufalably day reach use Manufactures I to Place Pharmaconducts ILC 2212	0.4 mg (1/150 gr)	society kinkel a berry solulin for Ninglycen Takes, Desingets Investigation Velocity and Ninetacord Velocity Plan Phanementicals U.S. 8210	0.3 mg (1/200 gr)

- a. Which bottle of Nitrostat would you use?
- b. How many tablets would you give?

ANS:

a. Nitrostat 0.3 mg sublingual (SL) tablet for Nitrostat tablets cannot be broken.b. 2 tablets SL

8. Order: Nitrostat gr 1/100, SL, stat Drug available:



a. How many tablets would you give?

b. Explain your answer.

ANS:

a. None from this bottle. Clarify order with provider stat, if nitroglycerin is needed, typically angina or acute coronary syndrome is suspected and delays can cause serious harm to the patient.

b. SL tablet cannot be broken.

9. Order: carvedilol (Coreg) 12.5 mg, PO, bid Drug available:



a. How many tablets should the patient receive per dose?

b. How many milligrams should the patient receive per day?

ANS: a. 2 tablets b. 25 mg per day

10. Order: acebutolol (Sectral), 200 mg, PO, bid (twice a day) Drugs available: acebutolol 100 mg, 200 mg, and 400 mg tablets a. Which acebutolol tablet you would select b. How many tablets would you give per dose per day?

ANS:a. 200 mg tablet strengthb. 1 tablet per dose; 2 tablets per day

 Order: acyclovir (Zovirax) 200 mg, PO, 5 × a day Drugs available: Zovirax 200 mg capsule; and 400 mg and 800 mg tablets a. Which Zovirax would you select? b. How many milligrams should the patient receive per day?

c. How many tablets/capsules of Zovirax should be administered per dose?

ANS: a. 200 mg capsule b. 1000 mg per day c. 1 Zovirax 200 mg capsule

12. Order: almotriptan (Axert) 12.5 mg PO, stat. May be repeated in 2 hours only. Drug available: Axert 6.25 mg tableta. How many tablets would you administer?b. If the dose is repeated in 2 hours, how many tablets should be given?

ANS:

a. 2 tablets

b. 2 tablets

13. Order: amiloride (Midamor) 10 mg, PO, in two divided doses and may increase to 15 mg per day.

Drug available: amiloride 5 mg tablet

a. How many tablets should the patient receive per dose?

b. If the dose is increased, how many tablets should the patient receive per day?

ANS:

a. 1 tablet per dose

b. 3 tablets per day

14. Order: aripiprazole (Abilify) 30 mg, PO, daily for 2 weeks; then 15 mg, PO, daily Drugs available: Abilify, 10 mg, 15 mg, 20 mg, 30 mg tablets

a. Which Abilify tablet would you select? Explain.

b. How many tablet(s) daily would you give during the first 2 weeks?

c. How many tablet(s) would you give daily after the first 2 weeks?

ANS:

a. Either the 15 mg or 30 mg tablet. By selecting the 15 mg tablet, the same strength could be used after the first 2 weeks.

b. 2 tablets of Abilify 15 mg or 1 tablet of the Abilify 30 mg tablet

c. 1 tablet of Abilify 15 mg or $\frac{1}{2}$ tablet of the Abilify 30 mg tablet

15. Order: captopril (Capoten) 75 mg, PO, bid

Drugs available: Capoten 12.5 mg, 25 mg, 50 mg, 100 mg tablets

a. Which Capoten strength would you select? Why?

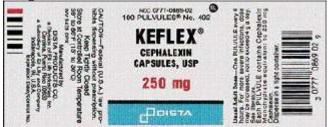
b. How many milligrams should the patient receive per day?

c. How many tablets should the patient receive per dose?

ANS:

- a. Select 25 mg strength, having multiple strengths can lead to errors
- b. 150 mg per day
- c. 3 tablets

16. Order: cephalexin 0.5 g, PO, q6h Drug available:



a. How many milligrams equal 0.5 g?

b. How many capsules would you give?

ANS: a. 500 mg (500. mg) b. 2 capsules

17. Order: dicloxacillin 1 g/day, PO, in four divided doses, q6h Drug available:

San J 37* 100 (Service) Trip 107 Conder Fine Toronaux Tripper or Lake Toronaux San J 37* 100 (Service) San J 37* 100 (Service) San J 37* 100 (Service) Tripper of the tripper or San J Toronaux San J 37* 100 (Service) San J	The second secon
387-32-713178240 Ann. 01 Ann. H 62010	≠ = ≡ B only
	100 CAPSULES
	TIEUZO

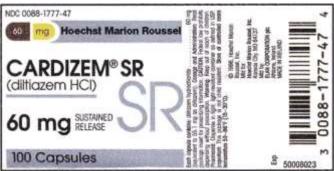
a. How many milligrams should the patient receive q6h?b. How many capsules would you give per dose?

ANS:

a. 1 g = 1000 mg; 1000 mg \div 4 = 250 mg, q6h b. 1 capsule of dicloxacillin per dose

18. Order: Cardizem SR 120 mg, PO, bid Drugs available:





- a. Which bottle of Cardizem would you use?
- b. How many milligrams per day should the patient receive?
- c. How many tablets/capsules per dose would you give?

ANS:

- a. Cardizem SR
- b. 240 mg per day (bid means twice a day)
- c. 2 capsules of Cardizem SR per dose

19. Order: Decadron 0.5 mg, PO, tid

Drug available:

28 E 8 6	32. 8	NDC 0008-0020-68		-	1
DULT DOSAG sperying chose with package i to a well-close in a well-close criatine.	t Pederal (US bia disperal prescription 592 78341	100 TABLETS Decadron® 0.25 mg (Dexamethasone)			
USUAL A Bes score This is a t activitiends	CAUTHON law prohi without 100 No. 7	Out by: MERCK & CO., INC. West Point, PA 19486, USA	ē	á	

a. How many milligrams should the patient receive per day?

b. How many tablets would you give per dose?

ANS:

a. 1.5 mg of Decadron per day (tid means three times per day)

BF:
$$\frac{D}{H} \times V$$

= $\frac{0.5 \text{ mg}}{0.25 \text{ mg}} \times 1 \text{ tab}$
= $0.25 \overline{\smash{\big)}0.50}$
= 2 tablets
OR
FE: $\frac{H}{V} = \frac{D}{x} = \frac{0.25}{1} = \frac{0.5}{x}$
= 2 tablets
OR
RP : H : V :: D : x
25 : 1 :: 0.5 : x
0.25x = 0.5
x = 2 tablets
OR (No Conversion needed)

b.

DA: tablet =
$$\frac{2}{\frac{1 \times 5\theta}{\theta + 25 \times 1}} = 2$$
 tablets

20. Order: Cipro (ciprofloxacin) 0.5 g, PO, q12h Drug available:



a. How many tablets would you give per dose?

b. How many milligrams would you give per day?

ANS:

- a. 1 tablet
- b. 1000 mg of Cipro per day

21. Order: carbidopa-levodopa, 50 mg carbidopa/200 mg levodopa ER, PO, bid Drug available: 25 mg carbidopa/100 mg levodopa ER tablet How many ER tablets should the patient receive per dose?

ANS: 2 ER tablets per dose

22. Order: chlorzoxazone (Paraflex) 750 mg, PO, tid Drugs available: chlorzoxazone 250 mg and 500 mg tablet a. How many milligrams should the patient receive per day?b. Which chlorzoxazone strength would you select? Explain

ANS:

a. 2250 mg per day

b. Select the 250 mg strength; give 3 tablets. May also give one 250 mg tablet and one 500 mg tablet.

23. Order: colesevelam (Welchol) 1250 mg, PO, bid with meals Drug available: colesevelam 625 mg tablet How many tablets should the patient receive per dose?

ANS: 2 tablets

24. Order: doxazosin (Cardura) 0.5 mg, PO, at bedtime; increase as needed Drugs available: doxazosin scored tablets, doses 1 mg, 2 mg, 4 mg, and 8 mg a. Which doxazosin strength would you select?b. How many tablets would you give?

ANS:

a. 1 mg doxazosin tablet strength

b.
$$\frac{1}{2}$$
 tablet

25. Order: procainamide (Procanbid) ER 0.5 g, PO, q6h Drug available:



a. How many grams should the patient receive per day?b. How many tablets of Procan will you give per dose?

ANS: a. 2 g per day b. 1 tablet of Procanbid ER per dose 26. Order: methenamine 1 g, PO, q12h Drug available:



How many tablets would you give?

ANS:

1 tablet of methenamine 1000 mg

27. Order: methyldopa (Aldomet) 0.75 g, PO, bid Drug available:

- Aldomet [®] 250) mg
West Point, PA 19486, USA	NDC 0006-0401-68 6505-00-890-1856
This is a bulk package and not intended for dispensing. Dispense in a well-closed container.	USUAL DOSAGE: See accompanying circular. CAUTION: Federal (USA) law prohibits
§ 100 Tablets	depensing without prescription.
Lot	
Zm Exp.	28426

- a. How many grams of Aldomet should the patient receive per day?
- b. How many milligrams per day?
- c. How many tablets would you give per dose?

ANS:

a. 1 g = 1000 mg; 1.5 g per day

b. 1500 mg per day

a. 0.75 g = 750 mg move decimal point to the right 3 spaces. (.750 g)

BF: $\frac{D}{H} \times V = \frac{750 \text{ mg}}{250 \text{ mg}} \times 1 \text{ tab} = 3 \text{ tablets}$ OR FE: $\frac{H}{V} = \frac{D}{x} = \frac{250}{1} = \frac{750}{x}$ Cross multiply 250x = 750 x = 3 tabletsOR RP: H: V :: D: x 250 mg: 1 tab :: 750 mg: x tab 250 x = 750 x = 3 tabletsOR (conversion neended) DA: tab = $\frac{1 \text{ tab} \times \frac{1000}{250} \text{ mg} \times 0.75 \text{ g}}{250 \text{ mg} \times 1 \text{ g} \times 1}$

 $= 4 \times 0.75 = 3$ tablets

28. Order: digoxin (Lanoxin) 0.5 mg, PO, daily Drugs available:



a. Which bottle of digoxin (Lanoxin) would you use?b. How many tablets would you give?

ANS:

- a. Lanoxin 250 mcg (0.25 mg) bottle
- b. 2 tablets (or 4 tablets of 125 mcg bottle)

29. Order: fenofibrate (Antara) 90 mg, PO, daily Drugs available: Antara 45 mg, 87 mg, and 130 mg capsules a. Which Antara strength would you select?b. How many capsules would you give per day?

ANS: a. Antara 45 mg strength b. 2 capsules per day

30. Order: bisoprolol (Zebeta) 5 mg, PO daily, for 4 weeks; increase to 10 mg for the next 4 weeks and 15 mg after the last 4 weeks



- a. How many tablets would you give for the first 4 weeks for eache dose?
- b. How many tablets would you give for the next 4 weeks for eache dose?
- c. How many tablets would you give during the third 4 weeks for eache dose?

ANS:

- a. 1 tablet
- b. 2 tablets
- c. 3 tablets
- Order: kanamycin 0.5 g, PO, q12h Parameter: 15 mg/kg/day in two or three divided doses Patient weighs 68 kg

Drug available:

M1400-00 Each capsule contains kanamycin suffate equination to 300 ng karamycin. Usual Donapt: See polision fait. Seen at room temperature 15%-30° C Gige-use in foit containert, as defined by USP.	100 Capsules NDC 0015-3506-60 EQUIVALENT TO 500 mg KANAMYCIN KANTREX® Kanamycin Sulfate Capsules, USP Rx only	READ ACCOMPANYING PACKAGE INSERT.	APOTHECON® A Bristol-Myers Squibb Company Princeton, NJ 08540 USA	3-0015-3506-60-3
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------	--------------------------------------	-------------------------------------------------------------------------	------------------

a. Is the patient's daily dose within safe dose parameters? Explain.b. How many capsules would you give per dose?

ANS:

a. Parameter: 15 mg \times 68 kg = 1020 mg per day. Ordered dose is 1 g or 1000 mg per day, which is within safe dose parameters.

b. 0.5 g = 500 mg; 1 capsule per dose

32. Order: cefuroxime 0.25 g, PO, bid

Drug available:

3 65862 - 033	*Each tablet contains: Caturorima Activations: Caturorima Activations 105 mg d officeration 25 co parkage insert for Dasge and Administration. Store at 2010 2510 KBP to 377°F; econologyamitted to 1510 2010 155° to 85°F; liser USP Connoled Room Temperature!	NOC 05862-033-6 Cefuroxime Axeti Tablets, USP 125 mg*	2000 Four 13t North 37 Deptin, NJ 0800 Maril 100 Billion 37 Aurolatinal by: Aurolatinal by: Aurolatinal by: Aurolatinal by: Rev. 01/13 Bath 1
6	Replace cap secondly after each opening.	Rx only 60 Table	B Enpiry .
	Keep this and all drags out of the reach of children. M J.No.: 76/MD/WP/HeIT/0/R	* RAINARA	1

a. How many milligrams equals 0.25 g?

b. How many tablets would you give per dose?

ANS:

a. 0.25 g = 250 mg; move the decimal point 3 spaces to the right 250 mg (.250 g)

b. 2 tablets of cefuroxime 125 mg per dose

 Order: ethambutol (Myambutal) 15 mg/kg/day, PO Drugs available: Myambutal 100 mg and 400 mg scored tablets

Patient weight: 67 kg

- a. How many milligrams of Myambutal should the patient receive per day?
- b. Which strength Myambutal would you select?
- c. How many tablets would you give?

ANS:

- a. $15 \times 67 \text{ kg} = 1005 \text{ mg} \text{ or } 1000 \text{ mg}$
- b. 400 mg strength
- c. 2.5 tablets per day
- 34. Order: etodolac 1.2 g/day, PO, in three divided dosesDrug available: etodolac (Lodine) 200 mg capsulesa. How many milligrams should the patient receive per dose?b. How many capsules would you give per dose?

ANS:

a. 1.2 g = 1200 mg; $1200 \div 3 = 400$ mg per dose b. 2 capsules of etodolac 200 mg per dose

35. Order: Compazine 10 mg, PO, qid Drug available:



(Maximum dose is 40 mg/day.)

a. Is the dose per day within safe parameters? Explain.

b. How many tablets would you give per dose?

ANS:

a. Yes; 10 mg, qid = 40 mg per day (qid means 4 times a day)

b. 2 tablets of Compazine per dose

36. Order: glyburide 2.5 mg, PO, daily

Drugs available: Glyburide (DiaBeta) 1.25 mg and 5 mg

a. Which bottle of glyburide would you use?

b. How many tablets of glyburide would you give?

ANS:

a. Either bottle of glyburide is OK, but the 1.25 mg bottle is preferred because it prevents breaking a 5-mg tablet in half.

b. 2 tablets of glyburide 1.25 mg, or $\frac{1}{2}$ tablet of glyburide 5 mg

37. Order: prazosin 4 mg, PO, tid

Drugs available: prazosin (Minipress) 1 mg, 2 mg, and 5 mg caplets

a. Which bottle of prazosin would you use?

b. How many capsules would you give per dose?

ANS:

a. Prazosin 2 mg bottle

b. BF:
$$\frac{D}{H} \times V = \frac{4 \text{ mg}}{2 \text{ mg}} \times 1 \text{ cap} = 2 \text{ caps}$$

OR
FE: $\frac{H}{V} = \frac{D}{x} = \frac{2 \text{ mg}}{1} = \frac{4 \text{ mg}}{x} = 2 \text{ caps}$
OR
RP: H: V:: D: x
2 mg: 1 cap:: 4 mg: x cap
2x = 4
x = 2 caps
OR (No conversion needed)
DA: caps = $\frac{1 \text{ cap} \times \frac{4}{4} \text{ mg}}{\frac{2}{4} \text{ mg} \times 1} = 2 \text{ caps}$

38. Order: levothyroxine 25 mcg, PO, daily

Drugs available: levothyroxine (Synthroid) 0.025 mg and 0.05 mg tablet

Change micrograms (mcg) into milligrams. Move the decimal point three spaces to the *left* a. $25 \text{ mcg} = ____ \text{mg}$

b. Which levothyroxine tablet would you select?

c. How many tablets would you give per day?

ANS: a. 0.025 mg b. 0.025 mg tablet c. 1 tablet

39. Order: Nitrostat tablets Drugs available:



a. Which of these nitroglycerin preparations is most potent?

b. How is Nitrostat SL administered? Why?

ANS:

a. Nitrostat 0.6 mg or 1/100 g

b. SL (under the tongue); drug is absorbed by the sublingual vessels under the tongue because gastric juices destroy the drug.

40. Order: pindolol 5 mg, PO, bid; after 2 weeks increase dose to 20 mg/day in two divided doses

Drugs available:



a. How many tablets of pindolol should the patient receive per dose for the first 2 weeks?b. How many tablets of pindolol should the patient receive per dose after 2 weeks?

ANS:

a. 1 tablet (5 mg bottle)

b. 2 tablets (5 mg bottle); 1 tablet (10 mg bottle) per dose [prefer keep pt on 5 mg tablets at home until gone, then switch to 10 mg on next Rx)

41. Order: ethambutol HCl 200 mg, PO, qid

Parameter: 15 mg/kg/day

Patient weighs 121 lb

Drugs available: ethambutol 100 mg and 400 mg

a. How many kilograms does the patient weigh?

- b. What is the maximum dose the patient should receive per day?
- c. Which bottle of ethambutol would you use?
- d. How many tablets would you give?

ANS:

a. 121 lb \div 2.2 kg = 55 kg

b. 15 mg \times 55 kg = 825 mg per day; dose is within safe dose parameter of 825 mg per day or 800 mg per day.

- c. Ethambutol 100 mg bottle
- d. 2 tablets from ethambutol 100 mg bottle per dose.
- 42. Order: aminocaproic acid (Amicar) 1.5 g, PO, stat, and may repeat in 1 hour Drug available:



a. How many milligrams are in 1.5 g?b. How many tablets would you give?

ANS:

a. 1.5 g = 1500 mg (1.500 mg)

b. 3 tablets of aminocaproic acid from Amicar 500 mg bottle

 43. Order: capecitabine (Xeloda) 2500 mg/m²/day in two divided doses Patient height: 64 in; weight 160 lb

Drugs available: Xeloda 150 mg and 500 mg tablets

a. Using the formula, calculate this person's BSA.

b. Patient should receive how many mg per day and per dose?

c. Which of the Xeloda strengths would you use?

d. How many tablets should the patient receive per dose?

ANS:

a. BSA 1.81
$$\sqrt{\frac{64 \times 160}{3131}} = \sqrt{3.27} = 1.81 \,\mathrm{m}^2$$

b. 4525 mg per day; 2262.5 mg per dose

c. Select Xeloda 500 mg strength.

d. $4\frac{1}{2}$ tabs per dose using the 500 mg strength = 2262.5 mg per dose (note, if cutting in half you MUST wear gloves as this is an oral chemotherapy agent)

44. Order: mercaptopurine (6-MP), 80 mg/m²/day, PO

Patient BSA (m²) is 1.8

Drug available: mercaptopurine (Purinethol) 50 mg tablets

a. How many milligrams should the patient receive per day?

b. How many tablets should the patient receive per day?

ANS:

a. 144 mg per day

b. 2.88 tablets or 3 tablets (round off) per day (144 mg/50 mg = 2.88 tablets).

45. Order: timolol maleate 10 mg, PO, bid; then, after 2 weeks, the patient is to receive 40 mg in two divided doses Drugs available:



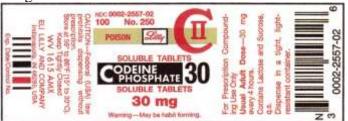
- a. Which bottle of timolol maleate would you choose for the first 2 weeks?
- b. How many tablets should the patient receive per dose during the first 2 weeks?
- c. Which bottle of timolol maleate would you choose after the first 2 weeks? Why?
- d. How many tablets should the patient receive per dose after the second week?

ANS:

- a. timolol maleate 10 mg
- b. 1 tablet of timolol maleate of 10 mg
- c. timolol maleate 20 mg; fewer tablets to give
- d. 1 tablet of timolol maleate of 20 mg

46. Order: codeine gr 1, PO, stat

Drug available:



How many tablets of codeine would you give?

ANS: Conversion factor: gr 1 = 60 mg

BF: $\frac{D}{H} \times V = \frac{60 \text{ mg}}{30 \text{ mg}} \times 1 \text{ tab} = 2 \text{ tablets}$ OR FE: $\frac{H}{V} = \frac{D}{x} = \frac{30}{1} = \frac{60}{x}$ Cross multiply 30x = 60 x = 2 tabletsOR RP: H: V:: D: x 30 mg: 1 tab:: 60 mg: x tab 30x = 60 x = 2 tabletsOR (conversion needed) DA: tab = $\frac{1 \text{ tab} \times \frac{60}{60} \text{ mg} \times \text{gr f}}{30 \text{ mg} \times \text{gr f} + x1} = 2 \text{ tablets}$

- 47. Order: propranolol (Inderal) 30 mg, PO, tid
 - Drugs available: propranolol 10 mg, 20 mg, 40 mg, 60 mg, and 80 mg
 - a. Which bottle(s) of propranolol would you use?
 - b. How many tablets would you give per dose?

ANS:

a. Propranolol 10 mg and 20 mg bottles

b. 1 tablet from each bottle per dose (could use the 60 mg bottle and give $\frac{1}{2}$ tablet)

48. Order: Cimetidine 0.4 g, PO, bid, and 0.8 g, at hour of sleep Drugs available:



a. Which bottle of Cimetidine would you use?

b. How many tablets would you give per dose during the day? How many tablets at hour of sleep?

ANS:

a. 0.4 g = 400 mg; either bottle is OK, but Tagamet 400 mg is preferred.

b. Using a Tagamet 400 mg bottle, give 1 tablet per dose during the day and 2 tablets at night (hs). Using a Tagamet 200 mg bottle, give 2 tablets per dose during the day and 4 tablets at night.

49. Order: Ciprofloxacin 1 g/day, PO, in two divided doses

- Drugs available: Ciprofloxacin (Cipro) 250 mg and 500 mg tablets
- a. What are the specific times for the patient to receive ciprofloxacin?
- b. How many grams or milligrams per dose?
- c. Which bottle of ciprofloxacin would you use?
- d. How many tablets would you give?

ANS:

- a. Two divided doses q12h
- b. 0.5 g or 500 mg per dose
- c. Either bottle is OK, but ciprofloxacin 500 mg is preferred.

d. Using the ciprofloxacin 500 mg, give 1 capsule per dose; using ciprofloxacin 250 mg, give 2 capsules per dose.

- 50. Order: captopril (Capoten) 50 mg, PO, bid
 - Drugs available: captopril 12.5 mg, 25 mg, and 37.5 mg tablets
 - a. Which bottle of captopril would you use?
 - b. How many tablets would the patient receive per dose?

ANS:

- a. Captopril 25 mg bottle
- b. 2 tablets of captopril per dose
- Order: moxifloxacin (Avelox) 400 mg, PO, daily for 5 days; then 200 mg PO, daily for the next 5 days.

Drug available:



a. How many tablets would you give for the first 5 days?

b. How many tablets would you give for the next 5 days?

ANS:

- a. 1 tablet of Avelox
- b. $\frac{1}{2}$ tablet of Avelox
- 52. Order: amlodipine (Norvasc) 2.5 mg, PO, daily and increase to 5 mg daily after 5 days. Drugs available: Norvasc 5 mg and 10 mg tablets
 - a. Which Norvasc strength would you select?
 - b. How many tablets would you give for 2.5 mg?
 - c. With an increase dosage of 5 mg, how many tablets would you give?

ANS:

a. Select the Norvasc 5 mg strength.

b. $\frac{1}{2}$ tablet of Norvasc for 2.5 mg c. 1 tablet of Norvasc

53. Order: pravastatin (Pravachol) 20 mg, PO, at bedtime Drug available:



How many tablets would you give?

ANS: 2 tablets

54. Order: betamethasone (Celestone) 2.4 mg, PO, daily Drug available: betamethasone 0.6 mg tablets How many tablets would you give?

```
ANS:

BF: \frac{D}{H} \times V = \frac{2.4 \text{ mg}}{0.6 \text{ mg}} \times 1 \text{ tablet} = 4 \text{ tablets}

OR

FE: \frac{H}{V} = \frac{D}{x} = \frac{0.6 \text{ mg}}{1 \text{ tab}} = \frac{2.4 \text{ mg}}{x}

Cross multiply: 0.6x = 2.4

x = 4 \text{ tablets}

OR

RP: H: V:: D: x

0.6: 1:: 2.4: x

0.6x = 2.4

x = \frac{2.4}{0.6}

x = 4 \text{ tablets}

DA: tab = \frac{1 \text{ tab} \times 2.4 \text{ mg}}{0.6 \text{ mg} \times 1}

= \frac{2.4}{0.6} = 4 \text{ tablets}
```

55. Order: dexamethasone (Decadron) 3 mg, PO, bid



a. Which bottle of Decadron would you use?

b. How many tablets would you give per dose?

ANS: a. Decadron 1.5 mg bottle b. 2 tablets per dose

56. Order: Dilantin 0.1 g, PO, daily Drugs available: phenytoin (Dilantin) 30 mg and 100 mg capsules a. Which bottle of Dilantin would you use?b. How many capsules of Dilantin would you give?

ANS:

a. 0.1 g = 100 mg- move the decimal point three spaces to the right (.100 g)b. 1 capsule from phenytoin 100 mg bottle

- 57. Order: phenytoin (Dilantin) 1 g, PO, loading dose (LD) in three divided doses in 24 hours Parameter: 15 to 18 mg/kg/LD
 Patient weighs 60 kg
 Drug available: Dilantin 100 mg capsule
 - a. In 24 hours, three divided doses would be how often?
 - b. How many milligrams would the patient receive per dose in 24 hours?
 - c. Is the dose within safe parameters? Explain.
 - d. How many capsules would you give per dose?

ANS:

- a. 8 hours (q8h)
 b. Per dose: (1) 300 mg, (2) 300 mg, and (3) 400 mg
 c. Yes, the dose is within safe dose parameters (900-1080 mg). Parameters: 15 mg × 60 = 900 mg; 18 mg × 60 = 1080 mg.
 d. (1) 3 capsules, (2) 3 capsules, and (3) 4 capsules
- 58. Order: meprobamate (Equanil) 1.2 g/day, in three divided doses Drugs available: Equanil 200 mg and 400 mg tablets a. How many milligrams would the patient receive per dose?b. Which bottle of meprobamate would you use?c. How many tablets would you give per dose?

ANS:

a. 1.2 g = 1200 mg; $1200 \div 3 = 400$ mg per dose

- b. Either bottle is OK, but meprobamate 400 mg bottle is preferred.
- c. 1 tablet per dose from meprobamate 400 mg bottle
- 59. Order: cyclophosphamide (Cytoxan) 200 mg, PO, daily Parameter: 1 to 5 mg/kg/day

Patient weighs 100 lb Drug available:



a. How many kilograms does the patient weigh?

b. Is the dose of Cytoxan within the parameter range? Explain.

c. How many tablets would you give?

ANS:

a. 100 lb \div 2.2 = 45.5 kg b. 1 mg × 45.5 = 45.5 mg; 5 mg × 45.5 = 227.5; Yes; dose is within safe parameters. c. 4 tablets of Cytoxan per dose

60. Order: Dilantin 100 mg, PO, daily Drug available: Dilantin 250 mg per 5 mL How many milliliters would you give?

ANS:

BF:
$$\frac{D}{H} \times V = \frac{100 \times 5}{250} \text{ mL} = \frac{5\theta\theta}{25\theta} = 2 \text{ mL of Dilantin per dose}$$

OR
FE: $\frac{H}{V} = \frac{D}{x} = \frac{250}{5} = \frac{100}{x}$
Cross multiply: $250x = 500$
 $x = 2 \text{ mL}$
OR
RP: H: V:: D: x
 $250 \text{ mg}: 5 \text{ mL}:: 100 \text{ mg}: x$
 $250x = 500$
 $x = 2 \text{ mL}$
OR
DA: mL = $\frac{5 \text{ ml} \times \frac{100}{100} \text{ mg}}{\frac{250}{5} \text{ mg}} = \frac{10}{5} = 2 \text{ mL}$

61. Order: escitalopram (Lexapro) 7.5 mg, PO in the AM daily Drug available: Lexapro 5 mg/5 mL

How many milliliters would you give in the AM?

ANS:

7.5 mL in the AM (5 mg : 5 mL = 7.5 mg : x mL, 5 mL × 7.5 mg = 5x, 37.5/5 = 7.5 mL)

62. Order: famotidine (Pepcid) 40 mg, PO, bedtime for 4 weeks, then 20 mg at bedtime for the next 4 weeksDrug available: Pepcid 40 mg/5 mLa. How many milliliters should the patient receive at bedtime for the first 4 weeks?b. How many milliliters should the patient receive at bedtime for the next 4 weeks?

ANS:

a. 5 mL for the first 4 weeks

b. $2\frac{1}{2}$ or 2.5 mL for the second 4 weeks

63. Order: fluphenazine HCl (Prolixin) 5 mg, PO, q6h Drug available: fluphenazine HCl 2.5 mg/5 mLa. How many milligrams should the patient receive per day?b. How many milliliters should the patient receive per dose?

ANS:

a. 20 mg per day (q $6h = 24/6 = 4 \text{ doses} \times 5 \text{ mg} = 20 \text{ mg}$)

- b. 10 mL per dose $(5mg/2.5 mg = 2 \times 5 mL = 10 mL)$
- 64. Order: amoxicillin 200 mg, PO, q8h Drug available:



How many milliliters of amoxicillin would you give per dose?

ANS:

4 mL of a moxicillin per dose. Proof: 250 mg : 5 mL = 200 mg : x mL, 5 × 200 = 250x, 1000/250 = 4 mL)

65. Order: Artane 1 mg, PO initially Drug available:



mich 6A ISDOR(L) LASDRAFCHEES (NIV)604 Amerikaan Galantinol Company Real Holes NY 1065 Made in U.S.A

1 Pint (473 mL)

How many milliliters would you give initially?

ANS: BF: $\frac{D}{H} \times V = \frac{1}{2} \times 5 \text{ mL} = \frac{5}{2} = 2.5 \text{ mL of Artane per dose}$ OR FE: $\frac{H}{V} = \frac{D}{x} = \frac{2}{5} = \frac{1}{x}$ Cross multiply: 2x = 5 x = 2.5 mLOR RP: H: V:: D: x 2:5:: 1 mg: x 2x = 5 x = 2.5 mLOR DA: mL = $\frac{5 \text{ mL} \times 4 \text{ mg}}{2 \text{ mg} \times 1} = \frac{5}{2} = 2.5 \text{ mL}$

66. Order: Artane 5 mg, PO, bid Drug available:



Intel 26. LEDERLE LABORATORIES (NIV) KON Amerikan Gasawad Gorgany Real Hose NY 1965, Made et USA

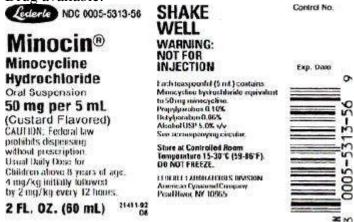
1 Pint (473 mL)

How many milliliters of Artane would you give per dose?

ANS:
BF:
$$\frac{D}{H} \times V = \frac{5 \text{ mg}}{2 \text{ mg}} \times 5 \text{ mL} = \frac{25}{2} = 12.5 \text{ mL of Artane per dose}$$

DA: mL = $\frac{5 \text{ mL} \times 5 \text{ mg}}{2 \text{ mg} \times 1} = \frac{25}{2} = 12.5 \text{ mL}$

67. Order: minocycline (Minocin) 100 mg, PO, q12h Drug available:



How many milliliters would you administer per dose?

ANS:

10 mL of minocycline per dose. Proof: 50 mg : 5 mL = 100 mg : x mL, $5 \times 100 = 5x$, 500/5 = 10 mL

68. Order: ampicillin (Principen) 150 mg, PO, q6h Drug available:



How many milliliters of ampicillin would you give?

ANS:

BF:
$$\frac{D}{H} \times V = \frac{\frac{6}{450}}{\frac{425}{5}} \times 5 = \frac{30}{5} = 6 \text{ mL of ampicillin per dose}$$

OR

RP: H: V :: D: x

125 mg: 5 mL :: 150 mg: x

125x = 750

 $x = 6 \,\mathrm{mL}$

OR

$$DA: mL = \frac{5 mL \times \frac{150}{125} mg}{\frac{125}{5} \times 1}$$
$$= \frac{30}{5} = 6 mL$$

69. Order: doxycycline monohydrate (Vibramycin) 100 mg, PO, initially; then 100 mg, PO, in two divided doses per day



a. How many milliliters should the patient receive initially?

b. How many milligrams should the patient receive per dose after the initial dose? c. How many milliliters should the patient receive per dose after the initial dose?

ANS:

a. 20 mL initially (25 mg: 5 mL = 100 mg : *x* mL, 5 × 100 = 25*x*, 500/25 = 20 mL) b. 50 mg, 100 mg/2 = 50 mg per dose c. 10 mL (25 mg: 5 mL = 50 mg : *x* mL, 5 × 50 = 25*x*, 250/25 = 10 mL)

70. Order: potassium chloride 30 mEq, PO, daily with foodDrug available: potassium chloride 20 mEq/15 mLHow many milliliters of potassium chloride would the patient receive?

ANS:

BF: $\frac{D}{H} \times V = \frac{\frac{3}{2\theta}}{\frac{2\theta}{2}} \times 15 = \frac{45}{2} = 22.5 \text{ mL of potassium chloride per dose}$ OR FE: $\frac{H}{V} = \frac{D}{x} = \frac{20}{15} = \frac{30}{x}$ Cross multiply: 20x = 450 x = 22.5 mLOR DA: $mL = \frac{15 \text{ mL} \times \frac{3\theta}{2\theta} \text{ mEq}}{\frac{2\theta}{2\theta} \text{ mEq} \times 1} = \frac{45}{2} = 22.5 \text{ mL}$

71. Order: docusate sodium (Colace) 200 mg, PO, daily per nasogastric tube Drug available: Colace 50 mg/5 mL How many milliliters of Colace would the patient receive?

```
ANS:
20 mL of Colace per day
RP: H:V = D:x
50 mg:5 mL = 200 mg:x
50x = 1000
x = 20 mL
```

72. Order: azithromycin (Zithromax) 300 mg, PO, first day, then 160 mg, PO, per day for the second through the fifth days Drug available:



a. How many milliliters should the patient receive the first day?

b. How many milliliters should the patient receive per dose for the next 4 days?

ANS:

a. 7.5 mL first day (200 mg : 5 mL = 300 mg : x mL, $5 \times 300 = 200x$, 1500/200 = 7.5 mL)

b. DA: mL =
$$\frac{5 \text{ mL} \times 160 \text{ mg}}{200 \text{ mg} \times 1} = \frac{20}{5} = 4 \text{ mL}$$

73. Order: cefuroxime axetil (Ceftin) 350 mg, PO, bid

Drug available:

GlaxoWellcome	Contains 1.8 g of collarizations small exprisatent to 3 g of collarization. Cavalians Fortentia law prohibits allogeneing without prescription. New parkings meet No cavage and Allowithoutouton.
Ceftin [®] for Oral Suspension (cefuroxime axetii powder for aral suspension) Far Oral Use Only 250 mg per 5 ml.	Direction of the Manag Cell Basematikan in Prazies for subgenotion of their Advancement of the Advancement of the product intervent whe space and regenerative rule is from oatile to sale as shall value rules there by the product generation of the event of the product regulater the following advancement proveds: Conservative rule is from oatile to sale as shall value rules of the product of the product of the event of the product regulater the oatile advancement. Subtract documentative rules are an even of the product of the product of the difference of the product of the product of the product of the figures on transportative rule is an high particip. Blance at due to figure advancement of the product of the product of the product of the figures on transportative rule is an high particip. Blance at due to figure distance on transportative rules are an even of the product of the figures on the product of the product of the product of the product of the product of the product of the product of the product of the figures on the product of the product of the product of the product of the product of the product of the product of the product of the distance of the product of the product of the product of the product of distance of the product of the product of the product of the product of distance of the product of the product of the product of the product of distance of the product of the product of the product of the product of distance of the product of distance of the product of the

a. How many milligrams should the patient receive per day?

b. How many milliliters should the patient receive per dose?

ANS:

a. 700 mg of Ceftin per day

b. 7 mL per dose (250 mg : 5 mL = 350 mg : x mL, $5 \times 350 = 250x$, 1750/250 = 7 mL)

74. Order: cefadroxil (Duricef) 1 g/day, PO, in two divided doses Drugs available:



- a. How many milligrams would the patient receive per dose?
- b. Which bottle of Duricef would you use?
- c. How many milliliters would you give per dose?

ANS:

a. 500 mg per dose

b. Either bottle is OK, but Duricef 500 mg/5 mL bottle is preferred.

c. Using Duricef 500 mg/5 mL bottle, give 5 mL per dose; using Duricef 250 mg/5 mL, give 10 mL per dose.

75. Order: Cephalexin 0.5 g, PO, q6h Drug available:

THE EXCLUSION OF STATE	NDC 0093-4177-73 CEPHALEXIN for Oral Suspension, USP 250 mg per 5 mL	илин, кинин 27.11 ст. и отн. К. с. и 27.11 ст. и отн. К. с. и отн. 21.11 ст. и отн. К. с. и отн. 21.11 ст. и отн. К. с. и от и отн. К. с. и отн. К. с. и отн. 21.11 ст. и отн. К. с. и отн. 21.11 ст. и отн. К. с. и отн. К. с. и 21.11 ст. и отн. К. с. и отн. К. с. и 21.11 ст. и отн. К. с. и отн. К. с. и и отн. К. с. и
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or Amart	100 mL (when mixed)	The strategy of the strategy o

How many milliliters would the patient receive per dose? (Convert grams to milligrams.)

ANS:

0.5 g = 500 mg; thus, give 10 mL of cephalexin per dose (250 mg : 5 mL = 500 mg : x mL, $5 \times 500 = 250x$, 2500/250 = 10 mL)

76. Order: prochlorperazine (Compazine) 7.5 mg, PO, qid Drug available:



How many milliliters of Compazine would the patient receive per dose?

ANS:

7.5 mL of Compazine per dose (1 mg per mL, proof: 5 mg : 5 mL = 7.5 mg : x mL, 5 × 7.5 = 5x, 37.5/5 = 7.5 mL)

77. Order: cyproheptadine 4 mg, PO, tid

Drug available: cyproheptadine (Periactin) 2 mg/5 mL syrup

a. How many milligrams should the patient receive per day?

b. How many milliliters should the patient receive per dose?

ANS:

- a. Patient should receive 12 mg per day. (4 mg × 3 times per day = 12 mg)
 b. Cyproheptadine 10 mL per dose (2 mg : 5 mL = 4 mg : x mL, 5 × 4 = 2x, 20/2 = 10 mL)
- 78. Order: donepezil (Aricept) 5 mg, PO, daily at bedtime

Drug available: Aricept 1 mg/ mL oral liquid How many milliliters should the patient receive at bedtime?

ANS: 5 mL of Aricept at bedtime

79. Order: esomeprazole (Nexium) 20 mg, PO, per day Available: Nexium oral suspension powder, 40 mg, mixed with 10 mL How many milliliters would you give the patient per day?

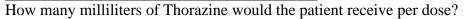
ANS:

$$\frac{D}{H} \times V = \frac{20 \text{ mg}}{40 \text{ mg}} \times 10 \text{ mL} = \frac{1}{2} \times 10 = 5 \text{ mL per day}$$

5 mL of Nexium oral solution per day

80. Order: chlorpromazine (Thorazine) 25 mg, PO, qid Drug available:





ANS:

£

BF:
$$\frac{D}{H} \times V = \frac{\frac{25}{25}}{\frac{10}{2}} \times 5 = \frac{25}{2} = 12.5 \text{ mL of Thorazine per dose}$$

81. Order: theophylline 120 mg, PO, daily
 Drug available: theophylline elixir 80 mg/15 mL
 How many milliliters of theophylline would you give?

ANS:

Give 22.5 mL of the ophylline per day. (80 mg : 15 mL = 120 mg : x mL, 15 × 120 = 80x, 1800/80 = 22.5 mL)

82. Order: theophylline 5 mg/kg, PO, loading dose Patient weight: 55 kg
Drug available: theophylline elixir 50 mg/5 mL How many milliliters of theophylline would you give?

ANS:

Loading dose is 275 mg according to weight, so give 27.5 mL of theophylline as a loading dose.

```
5 mg × 55 kg = 275 mg

RP: H: V = D: x

50 mg: 5 mL = 275 mg: x

50x = 1375

x = 27.5 mL

OR

DA: mL = \frac{5 mL \times 275 mg}{50 mg \times 1} = \frac{1375}{50} = 27.5 mL
```

83. Order: amoxicillin/clavulanate (Augmentin) 0.25 g, PO, q8h Drug available:

AUGMENTIN*	125mg/5mL	
The dring performance NSN 1055-61-385-8867 Binerations for mixing Tap bottle until of periodir flows fromty, Add appointment (323 of bottle instea for reconstitution (1256-656-656 instance reporting to set periodir instance reporting to se	AUCRENTING ANGRETILING CHARLENG FOTASSIUM CHARLENG FOTASSIUM MONOCOLLIN, NOF MIL MONOCOLLIN, NOF MIL MONOCOLLINA MONOCOLLINA MONOCOLLINA MONOCOLLINA MONOCOLLINA MONOCOLLINA MONOCOLLINA MONOCOLLINA MONOCOLLINA MONOCOLLINA MONOCOLLINA MONOCOLLINA MONOCOLLINA MONOCOLLINA MONOCOLLINA MONOCOLLINA MONOCOLLINA MONOCOLLINA MONOCOLLINA MONOCOLLINA MONOCOLLINA MONOCOLLINA MONOCOLLINA MONOCOLLINA MONOCOLLINA MONOCOLLINA MONOCOLLINA MONOCOLLINA MONOCOLLINA MONOCOLLINA MONOCOLLINA MONOCOLLINA M	the odd J from rest it check is required. It provides and the providence of a providence of the providence of a providence of a providence of a providence of the providence of a providence of a providence of a providence of the providence of a providence o
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How many milliliters of Augmentin would you give per dose?

ANS:

0.25 g = 250 mg; thus, give 10 mL of Augmentin per dose. (125 mg : 5 mL = 250 mg : x mL, $5 \times 250 = 125x$, 1250/125 = 10 mL)

84. Order: ampicillin 0.5 g, PO, q8h Drug available:

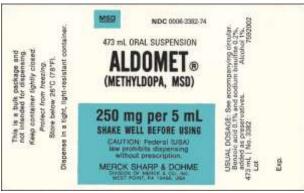


How many milliliters of ampicillin would you give per dose?

ANS:

0.5 g = 500 mg; thus, give 10 mL of ampicillin per dose. (250 mg : 5 mL = 500 mg : x mL, $5 \times 500 = 250x$, 2500/250 = 10 mL)

85. Order: methyldopa (Aldomet) 400 mg, PO, bid Drug available:



How many milliliters would you give per dose?

ANS: 8 mL of Aldomet per dose BF: $\frac{H}{V} = \frac{D}{x} = \frac{250}{5} = \frac{400}{x} = 250x = 2000$ x = 8 mLOR DA: mL = $\frac{5 \text{ mL} \times 400 \text{ mg}}{\frac{250}{5} \text{ mg} \times 1} = \frac{40}{5} = 8 \text{ mL}$

86. Order: albuterol 4 mg, PO, tidDrug available: albuterol 2 mg/5 mLHow many milliliters of albuterol would you give per dose?

BF:
$$\frac{D}{H} \times V = \frac{4}{2} \times 5 = \frac{20}{2} = 10 \text{ mL of albuterol per dose}$$

OR

$$DA:mL = \frac{5 mL \times 4 mg}{\frac{2}{1} mg \times 1} = 10 mL$$

87. Order: cimetidine (Tagamet) 200 mg, PO, qid with meals Drug available:



How many milliliters of Tagamet would you give?

ANS: BF: $\frac{D}{H} \times V = \frac{2\theta}{3\theta} \times 5 = \frac{10}{3} = 3.3 \text{ mL of Tagamet per dose}$ OR RP: H: V = D: x 300 mg: 5 mL = 200 mg: x 300x = 1000 x = 3.3 mL

- 88. Order: potassium chloride (KCl) 15 mEq, PO, bid
 - Drug available: potassium chloride 10 mEq/15 mL
 - a. How many milliliters of KCl would you give per dose?
 - b. How many milliequivalents (mEq) of KCl would the patient receive per day?
 - c. How many milliliters of KCl per day?

ANS:

a. 22.5 mL of potassium chloride per dose (10 mEq : 15 mL = 15 mEq : *x* mL, 15 × 15 = 10*x*, 225/10 = 22.5 mL) b. 30 mEq of KCl per day c. 45 mL of KCl per day

89. Order: furosemide (Lasix) 30 mg, PO, bidDrug available: furosemide 8 mg/mLHow many milliliters of furosemide would you give?

ANS:

3.75 mL of furosemide per dose RP: 8 mg : 1 mL = 30 mg : *x* mL, 30=8*x*, 30/8= 3.75 mL = 3.8 mL

DA: mL =
$$\frac{1 \text{ mL} \times 30 \text{ mg}}{8 \text{ mg} \times 1} = \frac{30}{8} = 3.75 \text{ mL or } 3.8 \text{ mL}$$

90. Order: acyclovir (Zovirax) 400 mg, PO, bid

Drug available:



How many milliliters of Zovirax would you give per dose?

ANS:

10 mL of Zovirax per dose RP: 200 mg : 5 mL = 400 mg : x mL, $5 \times 400 = 200x$, 2000/200 = 10 mL.

91. Order: diphenhydramine 50 mg, PO, q6hDrug available: diphenhydramine 12.5 mg/5 mLHow many milliliters of diphenhydramine would you give per dose?

ANS:

20 mL of diphenhydramine per dose. RP: 12.5 mg : 5 mL = 50 mg : x mL, $5 \times 50 = 12.5x$, 250/12.5= 20 mL)

92. Order: lactulose 30 g, PO, tid Drug available: lactulose 10 g/15 mL

How many milliliters of lactulose would you give per dose?

ANS:

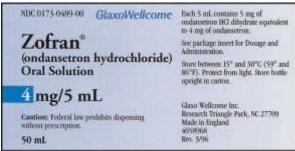
45 mL of lactulose per dose. RP: 10 g : 15 mL = 30 g : x mL, $15 \times 30 = 10x$, 450/10 = 45 mL.

 93. Order: guaifenesin 400 mg, PO, q4h × 5 days or until cough subsides Drug available: guaifenesin 100 mg/5 mL How many milliliters of guaifenesin would you give per dose?

ANS:

20 mL of guaifenesin per dose. RP: 100 mg : 5 mL = 400 mg : x mL, $5 \times 400 = 100x$, 2000/100 = 20 mL.

94. Order: ondansetron (Zofran 5 mg, PO, 30 minutes before narcotic administration round answer to the whole number. Drug available:



How many milliliters would you give before narcotic administration?

ANS:

BF: $\frac{D}{H} \times V = \frac{5}{4} \times 5 = \frac{25}{4} = 6.25 \text{ mL or } 6 \text{ mL (rounded off)}$ FE: $\frac{H}{V} = \frac{D}{x} = \frac{4 \text{ mg}}{5 \text{ mL}} = \frac{5 \text{ mg}}{x} =$ Cross multiply 4x = 25x = 6.25 or 6 mL (rounded off) 30 minutes before narcotic

95. Order: paroxetine (Paxil) 20 mg, PO, daily Drug available: Paxil oral suspension 10 mg/5 mL How many milliliters would you give per day?

ANS:

10 mL of Paxil, RP: 10 mg : 5 mL = 20 mg : x mL, $5 \times 20 = 10x$, 100/10 = 10 mL.

96. Order: promethazine 25 mg, PO, bidDrug available: promethazine 6.25 mg/5 mLHow many milliliters of promethazine would you give per dose?

ANS:

BF: $\frac{D}{H} \times V = \frac{25}{6.25} \times 5 = \frac{125}{6.25} = 20 \text{ mL of promethazine per dose}$ OR RP: H: V:: D: x 6.25 mg: 5 mL:: 25 mg: x 6.25x = 125 x = 20 mL

97. Order: erythromycin 2 g/day in four divided doses Drug available:



a. Four divided doses would be equivalent to every _____

- b. How many milligrams would the patient receive per dose?
- c. How many milliliters of erythromycin would you give per dose?

ANS:

a. 6 hours (q6h)

b. 2 g = 2000 mg \div 4 = 500 mg per dose

c. 10 mL of erythromycin per dose. RP: 250 mg : 5 mL = 500 mg : x mL, $5 \times 500 = 250x$, 2500/250 = 10 mL

98. Order: clindamycin 300 mg, PO, q8hDrug available: clindamycin 75 mg/mLHow many milliliters of clindamycin would you give per dose?

ANS:

4 mL of clindamycin per dose. RP: 75 mg : 1 mL = 300 mg : *x* mL, 300 = 75*x*, 300/75 = 4

99. Order: nystatin (Mycostatin) 0.5 million units, qid, swish and swallow Drug available:



How many milliliters of Mycostatin per dose would you pour?

ANS:

0.5 million units = 500,000 units; thus, give 5 mL of Mycostatin per dose.

100. Order: Crestor 10 mg, PO, daily with evening meal Drugs available:



a. Which Crestor bottle would you select?

b. How many tablets would you give?

ANS:

a. Either Crestor bottle could be selected; the Crestor 10 mg bottle is preferred.b. Give 2 tablets of Crestor from the 5 mg bottle. If the Crestor 10 mg bottle is used, then give 1 tablet.

101. Order: zidovudine (Retrovir) 100 mg by nasogastric tube, q6h

Drug available:



a. How many milligrams should the patient receive per day?

b. How many milliliters would you give per dose?

ANS:

a. 400 mg per day of zidovudine b. 10 mL per dose of zidovudine. RP: 50 mg : 5 mL = 100 mg : x mL, $5 \times 100 = 50x$, 500/50 = 10 mL

102. Order: lamivudine (Epivir) 0.15 g, PO, bid

Drug available:



a. How many milligrams should the patient receive per day? b. How many milliliters should the patient receive per dose?

ANS:

a. 0.15g = 150 mg - move the decimal three places to the right (.150 g)

b. 15 mL per dose of lamivudine. RP: 10 mg : 1 mL = 150 mg : x mL, 150/10 = 15 mL