**Fluid Dosage Calculations**

1. Thorazine 30 mg IM is ordered for your patient. The available concentration is 25 mg/mL. What amount will you give?
   a. 0.75 mL  
   b. 1 mL  
   c. 1.2 mL  
   d. 2 mL

2. Three milligrams of Haldol IM are ordered for your patient. On your unit, Haldol is available in 2 mL ampules that contain 5 mg/mL. What amount will you give?
   a. 0.4 mL  
   b. 1.5 mL  
   c. 1 mL  
   d. 0.6 mL

3. Solu-Cortef is available in a 50 mg/2mL IM solution. Your patient is to receive 25 mg IM. What amount will you give?
   a. 1 mL  
   b. 0.5 mL  
   c. 2 mL  
   d. 1.5 mL

4. 30 mg of Tofranil is ordered; available solution contains 25 mg/2mL. How much will you administer?
   a. 0.8 mL  
   b. 1 mL  
   c. 1.4 mL  
   d. 2.4 mL

5. 375 mg of Tetracycline syrup is ordered; available solution contains 125 mg/teaspoon. How much will you give?
   a. 1/3 tsp  
   b. 3 tsp  
   c. 1 tsp  
   d. 2 tsp
6. 0.25g Tetracycline is ordered; available solution contains 50 mg per mL. How many mL will you give?
   a. 5 mL
   b. 2 mL
   c. 0.5 mL
   d. 1 mL

7. Robinul 0.1 is ordered pre-op; available solution is 0.4 mg/2mL. How much will you give?
   a. 0.25 mL
   b. 2 mL
   c. 0.5 mL
   d. 4 mL

8. A solution contains furosemide (frusemide) 10 mg/mL. How many milligrams of frusemide are in 5 mL of solution?
   a. 2 mg
   b. 25 mg
   c. 50 mg
   d. 500 mg

9. A solution contains morphine hydrochloride 2 mg/mL. How many milligrams of morphine hydrochloride are in 7 mL of solution?
   a. 0.28 mg
   b. 3.5 mg
   c. 140 mg
   d. 14 mg

10. A solution contains morphine hydrochloride 40 mg/mL. How many milligrams of morphine hydrochloride are in 10 mL of solution?
    a. 4 mg
    b. 0.25 mg
    c. 40 mg
    d. 400 mg

11. A suspension contains phenytoin 125 mg/5mL. How many milligrams/grams of phenytoin are in 40 mL of the suspension?
    a. 1 g
    b. 5000 mg
    c. 3.125 mg
    d. 750 mg
12. A solution contains fluoxetine 20 mg/5mL. How many milligrams of fluoxetine are in 40 mL of solution?
   a. 800 mg  
   b. 160 mg  
   c. 2 mg  
   d. 0.5 mg

13. A suspension contains erythromycin 250 mg/5mL. How many milligrams/grams of erythromycin are in 30 mL of suspension?
   a. 1.5 g  
   b. 7.5 g  
   c. 8 mg  
   d. 750 mg

14. A syrup contains chlorpromazine 25 mg/5mL. How many milligrams of chlorpromazine are in 50 mL of syrup?
   a. 2 mg  
   b. 0.5 mg  
   c. 1250 mg  
   d. 250 mg

15. A mixture contains penicillin 250 mg/5mL. How many milligrams/grams of penicillin are in 35 mL of mixture?
   a. 1.75 g  
   b. 8.75 g  
   c. 7.1 mg  
   d. 0.14 g

16. A patient is prescribed 400 mg of penicillin to be given orally. The stock syrup on hand has a strength of 125 mg/5mL. What volume of syrup should be given to the patient?
   a. 3.2 mL  
   b. 0.31 mL  
   c. 16 mL  
   d. 20 mL

17. A patient is prescribed 500 mg of penicillin to be administered orally. On hand is syrup that has 125 mg/5mL. What dosage of syrup should the patient be given?
   a. 4 mL  
   b. 100 mL  
   c. 20 mL  
   d. 0.25 mL
18. A patient is prescribed 180 mg of paracetamol to be administered orally. On hand is suspension that has 120 mg/5mL. What dosage should the patient be given?
   a. 1.5 mL
   b. 36 mL
   c. 24 mL
   d. 7.5 mL

19. A patient is prescribed 30 mg of fluoxetine to be administered orally. On hand is solution that has 20 mg/5mL. What dosage should the patient be given?
   a. 1.5 mL
   b. 7.5 mL
   c. 0.67 mL
   d. 4 mL

20. A patient is prescribed 1200 mg of penicillin to be administered orally. On hand is a mixture that has 250 mg/5mL. What dosage should the patient be given?
   a. 4.8 mL
   b. 50 mL
   c. 24 mL
   d. 20 mL

21. A patient is prescribed 1 g of penicillin V potassium to be administered orally. On hand is a suspension 300 mg (500 000 units)/5mL. What dosage should the patient be given?
   a. 14 mL
   b. 0.25 mL
   c. 16.7 mL
   d. 50 mL

22. A patient is prescribed 25 mg of amoxicillin trihydrate / clavulanate potassium. On hand is a mixture that has 125 mg/5mL. What dosage should the patient be given?
   a. 1 mL
   b. 0.4 mL
   c. 2 mL
   d. 1.6 mL

23. A patient is prescribed 225 mg cefaclor suspension. On hand is suspension that has 375 mg/5mL. What dosage should the patient be given?
   a. 3 mL
   b. 1.4 mL
   c. 5 mL
   d. 0.3 mL
24. The order is for ampicillin suspension 750 mg. On hand is suspension that has 250 mg/5mL. What dosage should the patient be given?
   a. 1.5 mL  
   b. 15 mL  
   c. 20.5 mL  
   d. 25 mL

25. A patient is prescribed 0.25 mg digoxin elixir. On hand is digoxin elixir that has 50 mcg/mL. What dosage should the patient be given?
   a. 4.8 mL  
   b. 10 mL  
   c. 20 mL  
   d. 5 mL
Answer Key to Infusion: Quiz 1

Q01  c  30 mg ÷ 25 mg/mL = 1.2 mL
Q02  d  3 mg ÷ 5 mg/mL = 0.6 mL
Q03  a  50 mg/2mL ÷ 2 = 25 mg/mL; 25 mg ÷ 25 mg/mL = 1 mL
Q04  d  25 mg/2mL ÷ 2 = 12.5 mg/mL; 30 mg ÷ 12.5 mg/mL = 2.4 mL
Q05  b  375 mg ÷ 125 mg/tsp = 3 tsp
Q06  a  0.25 g x 1000 = 250 mg; 250 mg ÷ 50 mg/mL = 5 mL
Q07  c  0.4 mg/2mL ÷ 2 = 0.2 mg/mL; 0.1 mg ÷ 0.2 mg/mL = 0.5 mL
Q08  c  10 mg/mL x 5 mL = 50 mg
Q09  d  2 mg/mL x 7 mL = 14 mg
Q10  d  40 mg/mL x 10 mL = 400 mg
Q11  a  125 mg/5mL ÷ 5 = 25 mg/mL x 40 mL = 1000 mg or 1 g
Q12  b  20 mg/5mL ÷ 5 = 4 mg/mL x 40 mL = 160 mg
Q13  a  250 mg/5 mL ÷ 5 = 50 mg/mL x 30 mL = 1500 mg or 1.5 grams
Q14  d  25 mg/5 mL ÷ 5 = 5 mg/mL x 50 mL = 250 mg
Q15  a  250 mg/5 mL ÷ 5 = 50 mg/mL x 35 mL = 1750 mg or 1.75 g
Q16  c  125 mg/5 mL ÷ 5 = 25 mg/mL; 400 mg ÷ 25 = 16 mL of syrup is required to administer 400 mg of penicillin
Q17  c  125 mg/5 mL ÷ 5 = 25 mg/mL; 500 mg ÷ 25 mg/mL = 20 mL of syrup is needed to provide 500 mg of penicillin
Q18  d  120 mg/5mL ÷ 5 = 24 mg/mL; 180 mg ÷ 24 mg/mL = 7.5 mL
Q19  b  20 mg/5mL ÷ 5 = 4 mg/mL; 30 mg ÷ 4 mg/mL = 7.5 mL
Q20  c  250 mg/5mL ÷ 5 = 50 mg/mL; 1200 mg ÷ 50 mg/mL = 24 mL
Q21  c  300 mg/5mL ÷ 5 = 60 mg/mL; 1 g x 1000 = 1000 mg ÷ 60 mg/mL = 16.7 mL
Q22  a  125 mg/5mL ÷ 5 = 25 mg/mL; 25 mg ÷ 25 mg/mL = 1 mL
Q23  a  375 mg/5mL ÷ 5 = 75 mg/mL; 225 mg ÷ 75 mg/mL = 3 mL
Q24  b  250 mg/5mL ÷ 5 = 50 mg/mL; 750 mg ÷ 50 mg/mL = 15 mL
Q25  d  0.25 mg x 1000 = 250 mcg; 250 mcg ÷ 50 mcg/mL = 5 mL