Fluid Dosage Calculations

1. Solu-Cortef is available in a 100 mg/2mL IM solution. Your patient is to receive 50 mg IM. What amount will you give?
   a. 1 mL
   b. 0.5 mL
   c. 2 mL
   d. 1.5 mL

2. Dilaudid 3 mg IM is ordered for your patient. The only available dosage strength is 2 mg/mL. What amount will you give?
   a. 0.6 mL
   b. 1 mL
   c. 1.5 mL
   d. 2 mL

3. Thorazine 37.5 mg has been ordered for your patient. The only available dosage is 25 mg/mL. What amount will you give?
   a. 0.5 mL
   b. 1 mL
   c. 1.5 mL
   d. 2 mL

4. 500 mg of Ampicillin solution is ordered; available solution contains 125 mg/5mL. How much will you give?
   a. 20 mL
   b. 4 mL
   c. 1.25 mL
   d. 16 mL

5. Penicillin G Potassium 1,000,000 units is ordered; available solution contains 500,000 units per cc. How many mL will you give?
   a. 0.5 mL
   b. 1 mL
   c. 1.5 mL
   d. 2 mL
6. 50 mg of Demerol is ordered; available solution contains 100 mg/mL. How much will you give?
   a. 2 mL
   b. 0.5 mL
   c. 1.5 mL
   d. 1 mL

7. A solution contains furosemide (frusemide) 10 mg/mL. How many milligrams of frusemide are in 3 mL of solution?
   a. 30 mg
   b. 15 mg
   c. 3.3 mg
   d. 300 mg

8. A solution contains morphine hydrochloride 2 mg/mL. How many milligrams of morphine hydrochloride are in 5 mL of solution?
   a. 10 mg
   b. 0.2 mg
   c. 2.5 mg
   d. 100 mg

9. A solution contains morphine hydrochloride 40 mg/mL. How many milligrams of morphine hydrochloride are in 5 mL of solution?
   a. 8 mg
   b. 0.125 mg
   c. 100 mg
   d. 200 mg

10. A suspension contains phenytoin 125 mg/5mL. How many milligrams of phenytoin are in 30 mL of the suspension?
    a. 3750 mg
    b. 750 mg
    c. 42 mg
    d. 625 mg

11. A solution contains fluoxetine 20 mg/5mL. How many milligrams of fluoxetine are in 25 mL of solution?
    a. 500 mg
    b. 1.25 mg
    c. 100 mg
    d. 250 mg
12. A suspension contains erythromycin 250 mg/5mL. How many milligrams of erythromycin are in 20 mL of suspension?
   a. 5000 mg
   b. 12.5 mg
   c. 1250 mg
   d. 1000 mg

13. A syrup contains chlorpromazine 25 mg/5mL. How many milligrams of chlorpromazine are in 30 mL of syrup?
   a. 750 mg
   b. 1.2 mg
   c. 150 mg
   d. 125 mg

14. A mixture contains penicillin 250 mg/5mL. How many milligrams/grams of penicillin are in 25 mL of mixture?
   a. 1.25 g
   b. 10 mg
   c. 750 mg
   d. 6250 mg

15. Paracetamol 750 mg is to be given to a patient via syrup. The stock on hand contains 150 mg in 5 mL. What volume of syrup is to be administered to the patient?
   a. 5 mL
   b. 25 mL
   c. 30 mL
   d. 150 mL

16. Furosemide (frusemide) 125 mg is ordered. The stock solution contains 50 mg/mL. What volume of solution should be administered to the patient?
   a. 25 mL
   b. 2.5 mL
   c. 0.4 mL
   d. 5 mL

17. A patient is prescribed 100 mg of morphine hydrochloride to be administered orally. On hand is solution that has 40 mg/mL. What dosage should the patient be given?
   a. 2.5 mL
   b. 25 mL
   c. 0.25 mL
   d. 0.40 mL
18. A patient is prescribed 1250 mg of erythromycin to be administered orally. On hand is suspension that has 250 mg/5mL. What dosage should the patient be given?
   a. 2.5 mL
   b. 5 mL
   c. 25 mL
   d. 50 mL

19. A patient is prescribed 35 mg of chlorpromazine to be administered orally. On hand is syrup that has 25 mg/5mL. What dosage should the patient be given?
   a. 1.4 mL
   b. 5 mL
   c. 0.7 mL
   d. 7 mL

20. A patient is prescribed 200 mg amoxicillin trihydrate to be administered orally. On hand is solution that has 250 mg/5mL. What dosage should the patient be given?
   a. 7.5 mL
   b. 1.5 mL
   c. 0.67 mL
   d. 4 mL

21. A patient is prescribed 0.16 g acetaminophen for pain. On hand is 160 mg/5mL. What dosage should the patient be given?
   a. 24 mL
   b. 4.8 mL
   c. 5 mL
   d. 20 mL

22. A patient is prescribed 600 mg of erythromycin ethylsuccinate suspension. On hand is a suspension that has 400 mg/5mL. What dosage should the patient be given?
   a. 20 mL
   b. 4 mL
   c. 0.25 mL
   d. 7.5 mL

23. A patient is prescribed 0.1 g of theophylline elixir. In stock is theophylline elixir 80 mg/15mL. What dosage should the patient be given?
   a. 16.4 mL
   b. 20 mL
   c. 18.8 mL
   d. 14.6 mL
24. The order is for 400,000 units of nystatin suspension. In stock is nystatin suspension 100,000 units/mL. What dosage should the patient be given?

a. 1.4 mL  
b. 4 mL  
c. 5 mL  
d. 0.7 mL

25. A patient is prescribed 20 g lactulose to be administered via gastric tube. On hand is a lactulose 10 g/15mL. What dosage should the patient be given?

a. 32.4 mL  
b. 30 mL  
c. 24 mL  
d. 16 mL
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