



## Dosage Calculations IV – Multiple Dose Questions

### EXERCISES

1. The doctor has ordered Penicillin V Potassium 200 mg q8h for the patient. The drug is available in liquid form as 200 mg/2 mL.
  - a) How many milligrams of drug will you give the patient in one dose?
  - b) How many milligrams of drug are you giving the patient in one day?
2. The patient has been prescribed Amoxicillin 700 mg b.i.d. Amoxicillin is available in liquid form as 200 mg/mL.
  - a) How many milligrams of Amoxicillin will you give the patient in one dose?
  - b) What amount of drug are you giving the patient in one day? Give your answer in grams.
3. The doctor has ordered Penicillin V Potassium 200 mg q8h for the patient. The drug is available in liquid form as 200 mg/2 mL.
  - a) What volume of drug will you give the patient in one dose?
  - b) What volume of drug are you giving the patient in one day?
4. The patient has been prescribed Amoxicillin 700 mg b.i.d. Amoxicillin is available in liquid form as 200 mg/mL.
  - a) What volume of drug will you give the patient in one dose?
  - b) What volume of drug are you giving the patient in one day?
5. Cephalexin is prescribed for a patient 250 mg q6h. Cephalexin is available as an oral suspension of 125 mg/5 mL.
  - (a) How much Cephalexin is prescribed to the patient in 24 hours? Give your answer in grams.
  - (b) How many doses of Cephalexin will the patient be receiving per day?
  - (c) What volume of Cephalexin will the patient be receiving per day?
  - (d) What volume of Cephalexin will the patient be receiving per dose?
6. A patient is prescribed 1600 mg Ibuprofen p.o. divided equally into 4 doses over 24 hours. Ibuprofen is available in 200 mg tablets.
  - (a) How many grams of Ibuprofen will you give to the patient in 24 hours?
  - (b) What strength of Ibuprofen will the patient be receiving per dose?
  - (c) How many tablets of Ibuprofen will the patient be receiving per dose?
  - (d) How many tablets of Ibuprofen will the patient be receiving per day?



7. Sulfasalazine is prescribed for a patient with rheumatoid arthritis 1500 mg q12h. Each tablet of Sulfasalazine has a strength of 500 mg.
  - (a) How many grams of Sulfasalazine is prescribed to the patient in 24 hours?
  - (b) In one day, how many doses of Sulfasalazine will the patient be receiving?
  - (c) How many tablets of Sulfasalazine will the patient be receiving per day?
  - (d) How many tablets of Sulfasalazine will the patient be receiving per dose?
  
8. A patient is prescribed 60 mg Haloperidol p.o. divided equally into 3 doses over 24 hours. Haloperidol is available as a 2 mg/mL oral suspension.
  - (a) What strength of Haloperidol is prescribed to the patient in one dose?
  - (b) What volume of Haloperidol will the patient be receiving per dose?
  - (c) What volume of Haloperidol will the patient be receiving per day?
  
9. The physician prescribes 1 capsule of Celecoxib q12h for four days. The capsules prescribed have a strength of 500 mg/capsule.
  - (a) What strength of Celecoxib is prescribed to the patient in one dose?
  - (b) What strength of Celecoxib is prescribed to the patient in one day?
  - (c) How many capsules of Celecoxib will the patient receive per day?
  - (d) How many capsules of Celecoxib will the patient receive over four days?
  
10. The patient has been prescribed 2 tablets of Tylenol-3 q6h. Each tablet contains both 300 mg acetaminophen and 30 mg codeine.
  - (a) How many doses of Tylenol-3 will the patient be given in 24 hours?
  - (b) How many tablets will the patient receive in one day?
  - (c) What strength of codeine will the patient receive in one day?
  - (d) What strength of acetaminophen will the patient receive in 12 hours?
  - (e) The tablet form has run out and you only have liquid elixir available. 5 ml of elixir contains 120 mg acetaminophen and 12 mg codeine. What volume of elixir would you give the patient for one dose?

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## SOLUTIONS

- (1) (a) 200 mg (b) 600 mg (2) (a) 700 mg (b) 1.4 g (3) (a) 2 mL (b) 6 mL (4) (a) 3.5 mL (b) 7 mL (5) (a) 1 g (b) 4 doses (c) 40 mL (d) 10 mL (6) (a) 1.6 g (b) 400 mg (c) 2 tablets (d) 8 tablets (7) (a) 3 g (b) 2 doses (c) 6 tablets (d) 3 tablets (8) (a) 20 mg (b) 10 mL (c) 30 mL (9) (a) 500 mg (b) 1000 mg (c) 2 capsules (d) 8 capsules (10) (a) 4 doses (b) 8 tablets (c) 240 mg (d) 1200 mg (e) 25 mL

