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## Medication Math Packet #4

Due Date: Monday, 6-7-21

Time: \_\_\_\_\_ 1600

### Instructions

1. Complete the packet.
2. *Use the separate Answer Sheet to record your answers.*
3. *Turn in the Answer Sheet **only** to Mrs. Dutton by due date and time.*
4. You can turn it in prior to the official due date.
5. ***Required score - 80%.***

# Instructional Module 1

## Medication Math Packet

### Use the information for questions #1 to #3

Order: Administer fluorouracil 6 mg/kg/day IV  $\times$  1 dose

Available 1 g/20 mL

Patient's weight: 200 lbs

Label warning: do not exceed 800 mg per day

1. What are the mg for the dose?
2. What is the quantity of mL per dose?
3. Is the dose safe?
4. Order: 500 mg PO daily  
Available: 0.25 g/5 mL  
What is the dose in mL?
5. Administer 2 g amoxicillin daily in 4 divided doses  
Available: 500 mg capsules  
How many mg per dose?
6. Administer Atropine 2.4 mg IM now  
Available: Atropine 400 mcg/mL  
What volume should be administered?
7. Order: 125 mg Carvedilol PO bid  
Available: 0.2 g tablets.  
How many tablets per day?

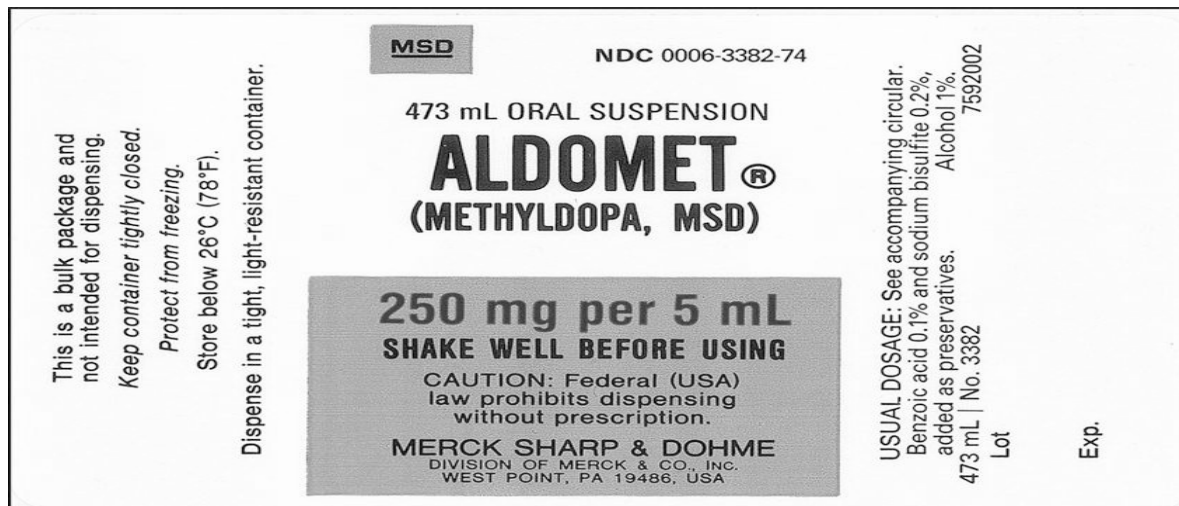
Use this information to answer Questions #8 to #11

An adult patient weighing 134 lb has an order for an antibiotic. The recommended dose range is 80-120 mg/kg/day to be given in 3 divided doses.

8. What is the patient's weight in kg?
9. What are the range doses?
10. What amount of medication would be administered for the lowest range single dose?
11. What is the highest dose in mg the patient can safely have in one full day?
12. Order: zidovudine 0.2 g PO every 4 hours as needed for symptomatic HIV  
Available: 100 mg scored tablets  
How many tablets are needed to deliver the dose?

**Use this information for Questions #13 and #14**

The prescriber has ordered methyldopa (Aldomet) 200 mg PO daily  
Pharmacy sent the medication



13. What is the first action you will take before obtaining the dose of medication?
14. How many mL are required to deliver the dose?
15. Order: levofloxacin 250 mg PO daily  
Available: levofloxacin 0.25 g/0.5 mL

What is the quantity of mL for the daily dose?

**Use this information to answer questions #16 to #18**

The prescriber has ordered potassium penicillin G 125,000 units by injection for a patient.

Available is a vial of powdered potassium Penicillin G labeled 1,000,000 units.

Using each of the dilutions from the label below, what volume of the final concentration would be administered? Round to the nearest 10<sup>th</sup>

Preparation of solution:

Diluent Added                      Final Concentration

16. \_\_\_\_\_ 9.6 ml                      100,000 units/ml

17. \_\_\_\_\_ 4.6 ml                      200,000 units/ml

18. \_\_\_\_\_ 3.6 ml                      250,000 units/ml

19.

NDC 63323-282-04 28204

**CLINDAMYCIN**

**INJECTION, USP**

**600 mg/4 mL**

**(150 mg/mL)\***

**For IM or IV Use**

**DILUTE BEFORE IV USE**

**4 mL Single Dose Vial**

Rx only

Sterile

\*Each mL contains clindamycin phosphate equivalent to 150 mg clindamycin, 0.5 mg disodium edetate and 9.45 mg benzyl alcohol as a preservative. When necessary, pH adjusted with sodium hydroxide and/or hydrochloric acid.

Usual Dosage: See package insert.

**Warning:** If given intravenously, must be diluted before use.

Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature].

**Do not refrigerate.**

Vial stoppers do not contain natural rubber latex.

**Abraxis**

Pharmaceutical Products

Schaumburg, IL 60173

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LOT/EXP



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Order: Administer clindamycin 250 mg q 12 hours

What is the quantity of mL to deliver a single dose?

Round to the 10ths.

20. A medication is available in 50 mg tablets

Order: Medication 75 mg PO QID

How many tablets are required to deliver the dose for the entire day (24 hours)?

21. Order: 20,000 units heparin IV in 250 mL to infuse at 25 units/kg/hr

The patient weighs 184 lbs.

How many units per hour will the patient receive?



22. The prescriber orders Vincasar 3 mg IM BID.  
What volume of mL should the nurse administer per day?
23. Administer ciprofloxacin 500 mg p.o. BID x 7 days, available 1000 mg per tablet.  
How many total tablets does the patient take to complete the course of treatment?
24. True or False:  
Medications are rounded to the nearest whole number for dosing in children.
25. Order: Administer medication 750 mg PO TID  
Available: Medication 1 g / 3 mL oral liquid  
How many mL would be administered per day?