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Medication Math Packet #4

Due Date: 11/9/2020

Time: 0800

**For the last packet,
there is a required
minimum score of
80%**

INSTRUCTIONS

1. Complete the packet.
2. *Use the Answer Sheet to record your answers. The answer sheet is a fillable form. Fill it out, save it and send it to me as an attachment to an email through LMS.*

For MAC users: Save the form in Rich Text Format (RTF) so I can open it. Instructions to do that are:

- a. Open the document in Word on your Mac
 - b. Click the “Save as Type” drop-down menu and click the “Rich Text Format” option.
 - c. Then save the file and attach it to the email.
3. You can turn it in prior to the official due date.
 4. *It must be turned in by the due date and time noted on the cover page.*

Instructional Module 1

Medication Math Packet # 3

Use this information for Questions #1 to #7

- A. Not for injection
- B. 125 mg/5 mL
- C. 113 mL
- D. Room temperature, discontinue after 14 days, shake well
- E. Water
- F. 150 mL
- G. Liquid - oral suspension

Match the answers - A. to G. - with the numbered question

- 1. Form _____
- 2. Volume used to dilute _____
- 3. Mix with this diluent _____
- 4. Dosage strength when reconstituted _____
- 5. Total volume when reconstituted _____
- 6. Warning _____
- 7. Instructions _____

8. Administer Hyoscyamine 5 mcg/kg x 1 dose.
 The child weighs 60 lbs.
 Available: 0.5 mg/mL
 How many mL should be administered? Round final answer to the 100th

Use the following information to answer Questions #9 to #13.

An adult patient weighing 134 lb has an order for an antibiotic. The recommended dose range is **75-110 mg/kg/day** to be given in **3 divided doses**.

9. What is the patient's weight in kg?
10. What is the minimum range dose?
11. What is the maximum range dose?
12. What amount of medication would be administered for the lowest single dose?
13. What is the highest dose in mg the patient can safely have in one full day?
14. Order: 300 mg Carvedilol PO bid.
Available: 0.2 g tablets.
How many tablets per day?

Use this information for Questions #15 and #16, round answers to the nearest whole number.

Order: Amoxicillin 250 mg PO q 6 hours

Available: 750 mg/3 mL

The bottle contains 60 mL.

15. How many mL will the nurse instruct the patient to take per dose?
Daily?
16. How many doses will the bottle of medication provide?

17. Order: Aminophylline 40 milligrams intravenously once.
Available: Aminophylline 250 mg/10 mL liquid for IV injection.
How many mL should the nurse administer?
18. Order: 50 milligrams of amoxicillin trihydrate orally tid
Available: 125 mg/5 mL syrup
How many mL should the nurse administer per dose?
19. Order: 13 mg of morphine sulfate by intramuscular injection every 4 hours PRN pain level 4-6
Available: morphine sulfate 5 mg/mL
How many mL should the nurse administer per dose?
20. Order: 50 mg of Flupenthixol decanoate by intramuscular injection daily
Available: 40 mg in 2 mL of liquid for IM injection
How many mL should the nurse administer?
21. Administer ciprofloxacin 250 mg PO bid.
Available: 500 mg per scored tablet
How many tablets does the patient take per dose?
22. Order: heparin 30 units/kg sq daily.
Patient's weight: 354 lbs
Available: heparin 1000 units/mL
How many units are administered per dose?
23. Order: vancomycin 12.5 mg/kg IM X 1 now.
Patient's weight: 150 lbs
Available: 1 g/2 mL

How many ml are administered for this dose?

24. Order: ceftriaxone 5 mg/kg PO BID
Patient's weight: 300 lbs
Available: ceftriaxone 300 mg / capsule
How many capsules are administered per dose?
25. Order: Amoxicillin 300 mg/dose PO BID divided doses.
Recommended dosage: amoxicillin 40 mg/kg divided in 2 daily doses
Patient's weight: 22 lbs
Available: amoxicillin 50 mg/ml
How many mg per day?
How many mL per dose?
Is it safe?