

Med Calc Quiz #5

1. Order: Tagamet 20 mg IV push now.
Available: Tagamet 30mg/2mL
The literature recommends diluting the Tagamet to a total of 20 mL. Injection should be over a period of not less than 2 minutes. An injection of 5 minutes is ordered.
 - a. How many mL of Tagamet will you administer? _____
 - b. How many mL of NaCl will you add to obtain the desired volume? _____
 - c. To administer the infusion in 5 minutes, how many mL should you infuse every minute? _____
 - d. How much should you infuse every 15 seconds? _____

2. Order: Ativan 3 mg IV push stat.
Available: Ativan 4 mg/mL
The literature states not to exceed 2 mg/min. Determine the time to administer the medication as ordered.
 - a. How many mL of Ativan will you prepare? _____
 - b. How many minutes would be needed to administer the drug as ordered? _____

3. A child's BSA is 0.8m^2 and the order is for 1.8 mg of a medication in 100 mL D₅W at 10 a.m. The recommended dosage is 2 mg/m².
 - a. Calculate the recommended dosage for this child. _____
 - b. Is the dosage ordered within the recommended range? _____

4. A child weighing 10 kg has an order for IV solumedrol 125 mg IV q6h for 48 hours. The Recommended daily dosage is 30mg/kg IV.
Is the ordered dose within the recommended range? _____

5. An IV solution of heparin is ordered for a client. D₅W 1000 mL containing 20,000 units of Heparin is to infuse at 30 mL/hr. Calculate the dosage of heparin the client is to receive per hour.

6. The heparin solution is 25,000 units of heparin in 500 mL of D₅W. The order is to infuse 850 units of heparin per hour. How many mL/hr would you infuse? _____
7. Order: Heparin 1000units/hr
Solution: 1000 mL NS with 25,000 units of heparin
Calculate the rate in mL/hr. _____
8. Order: Infuse 750 mL D₅W with 30,000 units of heparin at 25 mL/hr.
Calculate the dosage in units/hr. _____
9. A client weighs 176 lb. Heparin infusion 20,000 units in 1000 mL of NS. Order: Bolus with heparin sodium at 80 units/kg, then initiate drip at 18 units/kg/hr. Calculate the following:
- bolus dosage _____
 - infusion rate _____
 - mL/hr _____