Med Calc Quiz #7

1. An IV of Drug X 100 mg in 1000mL is infusing at 20 mL/hr. The physician asks, How many mg/hr is the patient receiving? How many mcg/min? How many mcg/kg/min? The patient weighs 143 pounds today.
   Mg/hr_____
   Mcg/min _____
   Mcg/kg/min _____

2. An IV of Drug X 250 mg in 500 mL is infusing at 15 mL/hr. The patient weighs 110 pounds. Calculate:
   mcg/hr _____
   mcg/min _____
   mcg/kg/min._____

3. An IV of Drug X 400 mg in 1000 mL is infusing at 5 mL/hr. The patient weighs 121 pounds. Calculate:
   mcg/hr_____
   mcg/min _____
   mcg/kg/min. _____

4. An IV of Drug X 1000 mg in 250 mL is infusing at 10 mL/hr. The patient weighs 132 pounds.
   Calculate mcg/kg/min _____

5. Ordered: Dopamine HCl (Intropin) 4 mcg/kg/min IV for a 110-lb patient. The literature states that the usual dose is 2 to 5 mcg/kg/min. Available: Dopamine 200 mg in 250 mL of D_5W.
    a) What is the safe dose range (SDR) for this patient?_____
    b) Is the order safe?_____
    c) Hourly drug order in mcg:_____
    d) Hourly drug order in mg:_____
    e) What is the hourly flow rate for the ordered dose?_____

6. Ordered: Dobutamine HCl (Dobutrex) 5 mcg/kg/min IV for a 132 pound patient. Available: Dobutamine 250 mg in 250 mL D5W. The current flow rate is 36 mL/hr.
    a) Hourly drug order in mcg:_____
    b) Hourly drug order in mg:_____
    c) Hourly flow rate to be set on the infusion device:_____
    d) Is the current infusion correct?_____

7. Ordered: Lidocaine 4 mg/min. Available: 1 g of lidocaine in 500 mL of D5W.
    a) What is the hourly drug ordered?_____
    b) Hourly flow rate to be set on the infusion device:_____

8. Ordered: Isuprel (isoproterenol hydrochloride) 5 mcg/min.
   Available: Isoproterenol hydrochloride 1 mg in 250 mL D5W.
   Calculate the hourly flow rate to be set on the infusion device:_____

9. Ordered: Initial infusion of norepinephrine at 50 mL/hr. The label on the infusion reads Norepinephrine 1 mg in 250 mL NS. The SDR is 8 to 12 mcg/min initially.
   Is the ordered dose appropriate?_____

10. An IV of Drug X 500 mg in 250 mL is infusing at 8 mL/hr. The patient weighs 175 pounds. Calculate:
    a) mcg/kg/min:_____

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