Student ID 128672

Module 2 Worksheet

6. The physician in the previous questions has now written an order to increase the Dopamine to 4 mcg/kg/min. Using the information in the previous question, what rate would the nurse set on the IV pump? Round to the nearest tenth.

$$\frac{75 \times 4 \times 60}{1600} = 11.3 \text{ mL/hr}$$

7. The patient is on an Insulin drip infusing at 5 units/hr. The bag is labeled 100 units insulin in 250 mL NS. At what rate should the pump be infusing? Round to the nearest whole number.

$$\frac{100}{250} = 0.4 = \frac{5 \text{ units}}{0.4} = 12.5 \text{ mL/hr}$$

8. The patient is on a Dopamine drip infusing at 35 mL/hr. The label reads 400 mg dopamine in 500 mL D5W. The patient weighs 62 kg. How many mcg/kg/min is the patient receiving? Round to the nearest tenth.

$$\frac{400 \times 1000}{500} = 800$$

$$\frac{800 \times 35}{62 \times 60} = \frac{28000}{3720} = 7.5 \text{ mcg/kg/min}$$

9. The physician has ordered Ceftriaxone 1 gram IV over 30 minutes. Pharmacy has sent a bag labeled Ceftriaxone 1 gram in 50 mL/ D5W. The IV tubing delivers 15 gtt/mL. How many drops per minute (gtt/min) will the nurse deliver?

$$\frac{50 \times 15}{30} = 25 \text{ mL/hr}$$

10. The patient is to receive ciprofloxacin 400 mg IV over 1 hour. You receive a bag from the pharmacy labeled ciprofloxacin 400 mg in 100 mL D5W. The IV tubing delivers 12 gtt/mL. How many drops per minute (gtt/min) will the nurse deliver?

$$\frac{100 \times 12}{60} = 20 \text{ mL/hr}$$