Module 1-10 questions Module 2-10 questions Worksheet

9. The order is to give midazolam 2mg IV now. The drug is supplied as 10mg/mL. How many mL will you give?

$$\frac{2\text{ mg}}{x} = \frac{10\text{ mg}}{1\text{ mL}} = 0.2\text{ mL}$$

10. Infuse Doripenem 500mg IV over 8 hrs. The drug is supplied as 500mg/100mL. The drip factor is 60. How many gtt/min will you infuse?

$$\frac{500 \times 60}{480} = 62.5 = 63\text{ gtt/min}$$

Worksheet 2

175 lb = 79.55

50 mg/500 mL
0.1 mg/mL
= 100 mcg/mL

1. The patient is receiving Nipride, currently infusing at 142 mL/hr. The IV bag of Nipride reads 50 mg in 500 mL D5W. The patient weighs 175 lbs. How many mcg/kg/min are infusing? Round to the nearest tenth.

$$\frac{100 \times 142}{79.55 \times 60} = \frac{14,200}{4,773} = 3.0\text{ mcg/kg/min}$$

250 mg / 500 mL
0.5 mg/mL
x 1000
500 mcg

2. The physician has ordered Dobutrex for a patient. The order states to start the Dobutrex at 1 mcg/kg/min, and titrate as needed. The IV bag of Dobutrex contains 250 mg in 500 mL D5W. The patient weighs 70 kg. How many mL/hr should the IV pump be set at to achieve the starting dose? Round to the nearest whole number.

$$\frac{70\text{kg} \times 1\text{ mcg/kg} \times 60\text{ mL/hr}}{500\text{ mcg/mL}} = 8\text{ mL/hr}$$

100 mg / 250 mL
0.4 mg/mL x 1000

3. The patient is currently receiving Nitroglycerine at 12 mL/hr. The bottle reads 100 mg Nitroglycerine in 250 mL D5W. How many mcg/min is the patient receiving?

$$\frac{400\text{ mcg/mL} \times 12\text{ mL/hr}}{60} = 80\text{ mcg/min}$$

500 u / hr

4. The physician orders Heparin infusion at 500 units/hr. The bag of Heparin reads 25,000 units in 250 mL D5W. How many mL/hr should be showing on the IV pump?

$$\frac{25,000}{250}\ \frac{100\text{ units}}{\text{mL}} = \frac{500\text{ units}}{x} \qquad 5\text{mL/hr}$$

165 lb = 75 kg

800 mg / 500 mL
= 1.6 mg/mL = 1600 mcg/mL

5. The physician has ordered Dopamine to start at 2 mcg/kg/min. The patient weighs 165 lbs. The bag of Dopamine reads 800 mg in 500 mL D5W. What rate (mL/hr) would the nurse set on the infusion pump? Round to the nearest tenth.

$$\frac{75 \times 2\text{ mcg/kg/min} \times 60}{1600} = 5.6\text{ mL/hr}$$