Module 1-10 questions Module 2-10 questions Worksheet

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.

79.5 kg
100 mcg/mL

$\frac{100 \times 142}{79.5 \times 60}$ $\frac{14200}{4770}$ = 3 mcg/kg/min

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.

500 mcg/mL

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

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?

400 mcg/mL

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

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?

100 u/mL

$\frac{500}{100}$ = 5 mL/hr

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 would the nurse set on the infusion pump? Round to the nearest tenth.

$\frac{75 \times 2 \times 60}{1600}$ = 5.6 mL/hr

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 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.

0.4 u/mL

$\frac{5}{0.4}$ = 13 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.

800 mcg/mL

$\frac{800 \times 35}{62 \times 60} \rightarrow \frac{28K}{3720}$ = 75.2 mcg/kg/min

Module 1-10 questions Module 2-10 questions Worksheet

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

$$\frac{50 \times 15}{30} = \boxed{25 \text{ gtt/min}}$$

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

$$\frac{100 \times 12}{60} = \boxed{20 \text{ gtt/min}}$$