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Module 2 Worksheet

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

$\frac{50 \times 1000}{500} = \frac{100 \times 142}{79.5 \times 60} = \frac{14200}{4770} = 2.97 = 3$ mcg/kg/min

mcg/kg/min

2. The physician has ordered Dobutamine for a patient. The order states to start the Dobutamine at 1 mcg/kg/min, and titrate as needed. The IV bag of Dobutamine 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.

$\frac{250 \times 1000}{500}$ mL/hr $\frac{500X}{70 \times 60} = \frac{4200}{500} =$ 8.4 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?

mcg/min $\frac{100\,000}{250}$ $\frac{400 \times 12}{60} =$ 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?

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

don't convert heparin

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.

rate = mL/hr

$\frac{800\,000}{500}$ $\frac{75 \times 2 \times 60}{1600} = \frac{9000}{1600} =$ 5.6 mL/hr