IM 7 Math Module

Complete the required math problems and check your answers.

165÷22=75

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

$\frac{2mcg}{1} = \frac{x}{75} = 150mcg \times 60$ 5.6

$\frac{9000mcg}{x} = \frac{800000}{500}$

15. The physician has written an order to increase the medication to 4 mcg/kg/min. The IV bag reads 64 mcg/mL. What rate would the nurse set on the IV pump? (Round to the nearest tenth)

$\frac{240}{x} = \frac{64}{1} =$ 3.8mL/hr

16. The patient is on a medication drip infusing at 15 mL/hr. The label reads 50 mcg/mL. The patient weighs 65 kg. How many mcg/min is the patient receiving? (Do not round)

$\frac{50mcg}{1} = \frac{x}{15mL} = 750mcg$ 12.5mcg/min

Heparin/Insulin or mg/hr

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

$\frac{25000}{250mL} = \frac{500}{5}$ 5 mL/hr

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

$\frac{100u}{250mL} = 5u$ 13

Burns (Parkland Formula) Do not round weights