Lanie Abers

Dosage Calc Homework - page 2

11. 175 lbs = 79.5 kg
50 mg / 500 mL = 0.1 mg/mL
0.1 mg = 100 mcg/mL
$\frac{100 \times 142 = 14,200}{79.5 \times 60 \quad 4,770}$ = 2.97 = $\boxed{3 \text{ mcg/kg/min}}$

12. 70 kg
250 mg / 500 mL = 0.5 mg/mL = 500 mcg/ml
$\frac{70 \times 1 \times 60}{500 \text{ mcg}}$ = $\frac{4,200}{500}$ = $\boxed{8.4 \text{ mL/hr}}$

13. 100 mg / 250 mL = 0.4 mg/mL = 400 mcg/mL
$\frac{400 \text{ mcg} \times 12 \text{ mL/hr}}{60 \text{ min}}$ = $\boxed{80 \text{ mcg/min}}$

14. 75 kg
800 mg / 500 mL = 1.6 mg/mL = 1,600 mcg/mL
$\frac{75 \text{ kg} \times 2 \text{ mcg/kg/min} \times 60}{1,600 \text{ mcg/mL}}$ $\frac{150}{1600}$ = $\boxed{5.6 \text{ mL/hr}}$

15. $\frac{4 \text{ mcg} \times 60}{64 \text{ mcg}}$ = $\frac{240}{64}$ = $\boxed{3.8 \text{ mL/hr}}$

16. $\frac{50 \text{ mcg} \times 15 \text{ mL/hr}}{60 \text{ min}}$ = $\boxed{12.5 \text{ mcg/min}}$

17. 25,000 / 250 = 100 units/mL $\frac{500}{100}$ = $\boxed{5 \text{ mL/hr}}$

18. 100 / 250 = 0.4 units/mL $\frac{5}{0.4}$ = 12.5 = $\boxed{13 \text{ mL/hr}}$

19. 4 ml × 50 + bsa × 90.9 ÷ 1000 = $\boxed{18 \text{ liters}}$

20. $\frac{4 \text{ ml} \times .75 \times 68.1 \text{ kg}}{1000}$ = $\frac{20,430}{1000}$ = 20.4 = $\boxed{20 \text{ liters}}$