

Courtesy Singleton

1. $\frac{800 \text{ units}}{25000 \text{ units}} / \text{hr IV}$
 $\frac{\text{in } \textcircled{250} \text{ mL NS}}$

- a. 8 mL/hr
b. $\frac{250}{8} = 31.3 \text{ hrs.}$

2. $\frac{500 \text{ mg}}{500 \text{ mg}} \text{ in } 100 \text{ mL}$
 $\frac{\text{in } \frac{100 \text{ mL}}{1 \text{ hr}}}$

a. 100 mL/hr

3. $\frac{24 \text{ g}}{24 \text{ g}}$ over 24hr
 $\frac{\text{in } 1000 \text{ mL}}{\frac{1000}{24}}$

a. 42 mL/hr

4. $\frac{10 \text{ mg}}{125 \text{ mg}} / \text{hr IV}$
 $\text{in } \textcircled{100} \text{ mL}$

= 8 mL/hr

5. $\frac{4 \text{ mg}}{100 \text{ mg}} / \text{hr}$
 $\times 100 \text{ mL}$

= 4 mL/hr

6. $\frac{15 \text{ units}}{125 \text{ units}} / \text{hr IV}$
 $\text{in } \textcircled{250} \text{ mL NS}$
 $\frac{30}{30}$

- a. 30 mL/hr
b. 8 hrs.

7. $\frac{50 \text{ mg}}{24 \text{ hr}}$ in $\frac{250 \text{ mL}}{24 \text{ hr}}$ over 24hrs

rate = 10 mL/hr

8. $\frac{1200 \text{ units}}{25000 \text{ units}} / \text{hr IV}$
 $\text{in } \frac{500 \text{ mL}}{24}$

- a. 24 mL/hr
b. 21 hrs.

9. $\frac{23 \text{ units}}{250 \text{ units}} / \text{hr IV}$
 $\text{in } \frac{250 \text{ mL NS}}{23}$

- a. 23 mL/hr
b. 11 hrs.

10. $\frac{100,000 \text{ units/hr. for } 24 \text{ hr IV}}{750,000 \text{ units in } 250 \text{ mL}}$

a. 33 mL/hr

p. 244

1. $\frac{1000 \text{ mL}}{1000 \text{ mL}}$; run 150 mL/hr

a. $\frac{1000}{150} = 7 \text{ hr.}$

b. $\frac{150 \times 10}{60} = 25 \text{ gtt/min}$ $\frac{150 \times 60}{60} = 150 \text{ gtt/min}$

c. Macro tubing

2. 100 mL 12 - 6 = 6 hr

a. $\frac{100 \times 10}{360} = 17 \text{ gtt/min}$ $\frac{100 \times 60}{360} = 3 \text{ gtt/min}$

b. micro tubing

3. $\frac{180 \text{ mL}}{250 \text{ mL}}$ 3 hr (180)

a. In a 250 bag let 100 mL run out the macro tubing

b. $\frac{150 \times 15}{180} = 13 \text{ gtt/min}$ $\frac{150 \times 60}{180} = 50 \text{ gtt/min}$

c. macro tubing

4. $\frac{500 \text{ mL}}{24 \text{ hr}} = 21 \text{ mL/hr}$

5. $\frac{100 \text{ mg}}{100 \text{ mg powder}}$

a. Reconstitute 100mg powder with 250mL D5W infuse over 1hr

b. $\frac{250 \times 10}{60} = 41.7 \text{ gtt/min}$

6. $\frac{500 \text{ mg in } 250 \text{ mL}}{8 \text{ hr}}$
 $1 \text{ g} = 1,000 \text{ mg in } 10 \text{ mL microdrip tubing}$

a. 5mL added to make 500mg $\frac{500 \text{ mg} \times 10 \text{ mL}}{1000 \text{ mg}} = 5 \text{ mL}$

b. $\frac{250}{8} = 31 \text{ mL/hr} = 31 \text{ gtt/hr}$

7. 24hr intake 125 mL/hr
 1000 mL in 75 mL q6h to run over 1hr

$75 \times 4 = 300 \text{ mL}$

$125 \times 20 = 2500 \text{ mL}$

$= 2800 \text{ mL}$

8. 1000mL D51/2NS run at 90mL/hr

a. 90 mL/hr

b. $\frac{1000 \text{ mL}}{90 \text{ mL}} \times 1 \text{ hr} = 11 \text{ hrs}$

9. $\frac{500 \text{ mL}}{50 \text{ mg}}$ 500mg infuse @ 50 mL/hr.

10. 5mL IVPB q6h
5mL; one 5mL vial per 75mL run 60 to 90min
connected to infusion pump - do what?

a. Remove 25mL; add 5mL bactrim; so 75mL/hr

b. add 60min 2ad 75mL/hr

add 90min 75mL/50hr

11. Prepare $\frac{3}{4}$ strength

$$150\text{mL} \times 0.75 = 112.5\text{mL Isocal}$$

$$150 - 112.5 = 37.5\text{mL water}$$

12. Prepare $\frac{1}{2}$ strength

$$500\text{mL} \times .50 = 250\text{mL}$$

$$500 - 250 = 250\text{mL water}$$

13. 25% Osmolite.

$$400\text{mL} \times 0.25 = 100\text{mL}$$

$$400 - 100 = 300\text{mL water}$$

14. Prepare full strength

500mL - keep volume and don't mix water at all

= 0 water