Pg 244

1.

A. $\frac{1000\,mL}{150\,mL} = 6.6 = 7$ hrs

B. $\frac{10\,gtt}{1\,mL} \times \frac{150\,mL}{1\,hr} \times \frac{1\,hr}{60\,min} = \frac{1500}{60} = 25 \frac{gtt}{min}$

macrodrip

$\frac{60\,gtt}{1\,mL} \times \frac{150\,mL}{1\,hr} \times \frac{1\,hr}{60\,min} = \frac{9000}{60} = 150 \frac{gtt}{min}$

microdrip

C. macrotube

2. $\frac{60\,gtt}{1\,mL} \times \frac{100\,mL}{6\,hrs} \times \frac{1\,hr}{60\,min} = \frac{10000}{360} = 16.6$

$= 17\,gtt/min$

microDrips

3. $\frac{15\,gtt}{1\,mL} \times \frac{150\,mL}{3\,hrs} \times \frac{1\,hr}{60\,min} = \frac{2250}{180} = 13 \frac{gtt}{min}$

$\frac{60\,gtt}{1\,mL} \times \frac{150\,mL}{3\,hrs} \times \frac{1\,hr}{60\,min} = \frac{9000}{180} = 50 \frac{gtt}{min}$

Microdrip

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

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5. $\frac{10 gtt}{1 mL} \times \frac{250 mL}{1 hr} \times \frac{1 hr}{60 min} = \frac{2500}{60} = \frac{42}{\frac{gtt}{min}}$

6. $\frac{10 mL}{1 g} = 500 mg \times \frac{1 g}{1000 mg} = \frac{5000}{1000} = 5 mL$

$\frac{250 mL}{8 hr} = 31 mL/hr$ / gtt/min

Drip Rate

7. 2800 mL

8. $\frac{1000 mL}{90 mL} = 11$ hrs

9. $\frac{50 mg}{mL}$

10. $\frac{75 \times 60 min}{90 min} = 50 mL/hr$

11. 3/4 x 150mL = 112.5 mL Isocal
150mL - 112.5mL = 37.5 mL water

12. 1/2 x 500mL = 250 mL Vivonex
500mL - 250mL = 250mL water

13. 25% = 0.25
0.25 x 400 mL = 100mL osmolite
400mL - 100mL = 300mL water

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14. 500 mL 150 cal
0 mL water

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Self Test pg 269 - Infusion Rate

1. $\frac{800 \text{ units/hr IV}}{25000 \text{ units}} \times 250 \text{ mL} = 8 \text{ mL/hr}$

How many hr will the IV Run? $\frac{250 \text{ mL}}{8 \text{ mL/hr}} =$

31.25 = 31.3

2. $\frac{100 \text{ mL}}{1 \text{ hr}} = 100 \text{ mL/hr}$

3. $\frac{1000 \text{ mL}}{24 \text{ hrs}} = 41.6 = 42 \text{ mL/hr}$

4. $\frac{10 \text{ mg/hr IV}}{125 \text{ mg}} \times 100 \text{ mL D5W} = 8 \text{ mL/hr}$

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

6. $\frac{15 \text{ units/hr}}{125 \text{ units}} \times 250 \text{ mL} = 30 \text{ mL/hr}$

7. $\frac{250 \text{ mL}}{24 \text{ hr}} = 10.4 = 10 \text{ mL/hr}$

8. $\frac{1200 \text{ units/hr}}{25{,}000 \text{ units}} \times 500 \text{ mL} = 24 \text{ mL/hr}$

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How many hrs will the IV run → $\frac{250\,mL}{23\,mL/hr} = 11\,hr$

9. $\frac{23\text{ units}}{250\text{ units}}/hr \times 250\,mL = 23\,mL/hr$

10. $\frac{100{,}000\text{ unit}}{750{,}000\text{ units}}/hr \times 250\,mL = 33\,mL/hr$

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