Module 1 Worksheet

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1. Infuse ceftriaxone 1 gram over 45 minutes. The drug is supplied as 1gram/50ml. The drip factor is 15. How many gtt/min will you infuse?

$\frac{15\,gtt}{1\,mL} \times \frac{50\,mL}{1\,g} \times \frac{1\,g}{45\,min} = \frac{750}{45} = 16.7 \rightarrow$ **17 gtt/min**

2. The physician writes an order to give 1000mL of normal saline over 8hrs. How many mL/hr will you infuse?

125 mL/hr

3. Infuse vancomycin hydrochloride 1.5 gram over 3 hours. The drug is supplied as 1.5 gram/250mL. The drip factor is 15. How many gtt/min will you infuse?

$\frac{15\,gtt}{1\,mL} \times \frac{250\,mL}{1.5\,g} \times \frac{1.5\,g}{3\,hr} \times \frac{1\,hr}{60\,min} = \frac{5625\,gtt}{270\,min} = 20.83\,gtt/min =$ **21 gtt/min**

4. An order has been written to give cefazolin 1gram over 30 minutes. The drug is supplied as 1 gram/50mL. The gtt factor is 60. How many gtt/min will you infuse?

$\frac{60\,gtt}{1\,mL} \times \frac{50\,mL}{1\,g} \times \frac{1\,g}{30\,min} = \frac{3000\,gtt}{30\,min} =$ **100 gtt/min**

5. The nurse is to give Ciprofloxacin 500mg IV over 1 hr. The drug is supplied as 1gram/250mL. The gtt factor is 15. How many gtt/min will you infuse?

$\frac{15\,gtt}{1\,mL} \times \frac{250\,mL}{1\,g} \times \frac{1\,g}{1000\,mg} \times \frac{500\,mg}{1\,hr} \times \frac{1\,hr}{60\,min} = \frac{1875\,gtt}{60.00\,min} = 31.25\,gtt/min =$ **31 gtt/min**

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