NWS 3400: Infusions

Order: Administer D5W IV @ 70mL/h for 24 hrs. The initial flow rate was correctly set using micro-drip tubing. After 4 hrs, the infusion is off schedule with 600 mL remaining in the initial 1 L bag. Your facility policy is to notify the ordering physician if flow rates require adjusting more than 25% of the original rate.

1000mL
- 600mL
400mL

★ Calculate new flow rate in mcgtt/min so infusion will finish on time.

$$\frac{24\text{h}}{1\text{h}} \left| \frac{70\text{mL}}{} \right. = 1680\text{mL}$$
$$-400\text{mL}$$
$$1280\text{mL}$$

$$\frac{1280\text{mL}}{20\text{hr}} \left| \frac{1\text{h}}{60\text{min}} \right| \frac{60\text{mgtt}}{1\text{mL}} = 64\ \frac{\text{mcgtt}}{\text{min}}$$

★ Calculate the adjustment for flow rate allowed by the facility.

$$\frac{70\text{mL}}{1\text{h}} \left| \frac{1\text{h}}{60\text{min}} \right| \frac{60\text{mcgtt}}{1\text{mL}} = 70\ \text{mcgtt/min}$$

$$70(0.25) = 17.5\ \text{mcgtt/min} \rightarrow 18\ \text{mcgtt/min}$$

$$70 + 18 = 88$$
$$70 - 18 = 52$$

52 - 88 mcgtt/min

↓

64