

## Sheet 2 PRACTICE MATH PROBLEMS

1. Order: Regular Insulin 100 units at 5 units/hr

Pharmacy: 100 units/500mL NS

$$\frac{\text{mL}}{\text{hr}} = \frac{500\text{mL}}{100 \text{ units}} \times \frac{5 \text{ units}}{\text{hr}} = \underline{25 \text{ mL/hr}}$$

2. Order: Lidocaine 2mg/min

Pharmacy: 2 g in 500 mL D5W

$$\frac{\text{mL}}{\text{hr}} = \frac{500 \text{ mL}}{2 \text{ g}} \times \frac{1 \text{ g}}{1000\text{mg}} \times \frac{2 \text{ mg}}{\text{min}} \times \frac{60 \text{ min}}{\text{hr}} = \underline{30 \text{ mL/hr}}$$

3. Order: Dobutamine 10mcg/kg/min

Pharmacy: 250mg/250mL and tubing 60gtt/mL

Weight: 143 #

$$\frac{\text{gtt}}{\text{Min}} = \frac{60 \text{ gtt}}{\text{mL}} \times \frac{250 \text{ mL}}{250 \text{ mg}} \times \frac{1 \text{ mg}}{1000\text{mcg}} \times \frac{10 \text{ mcg}}{\text{kg/min}} \times \frac{1 \text{ kg}}{2.2\#} \times \frac{143\#}{1} = \underline{39 \text{ gtt/min}}$$

4. Order: Dopamine at 3mcg/kg/min.

Pharmacy: 800mg/250mL D5W

Weight: 158 #

$$\frac{\text{mL}}{\text{hr}} = \frac{250 \text{ mL}}{800 \text{ mg}} \times \frac{1 \text{ mg}}{1000\text{mcg}} \times \frac{3 \text{ mcg}}{\text{kg/min}} \times \frac{1 \text{ kg}}{2.2\#} \times \frac{158\#}{1} \times \frac{60 \text{ min}}{\text{hr}} = \underline{4 \text{ mL/hr}}$$

5. Order: Dobutamine at 650mcg/min

Pharmacy: 250mg/500mL D5W

$$\frac{\text{mL}}{\text{hr}} = \frac{500 \text{ mL}}{250 \text{ mg}} \times \frac{1 \text{ mg}}{1000\text{mcg}} \times \frac{650 \text{ mcg}}{\text{min}} \times \frac{60 \text{ min}}{1 \text{ hr}} = \underline{78 \text{ mL/hr}}$$

6. Order: Ticarcillin 500 mg q 6 hour

Pharmacy: 1g/75mL over 45 minutes

Tubing: 15gtt/mL

$$\frac{\text{gtt}}{\text{Min}} = \frac{15 \text{ gtt}}{\text{mL}} \times \frac{75 \text{ mL}}{1 \text{ g}} \times \frac{1 \text{ g}}{1000\text{mg}} \times \frac{500 \text{ mg}}{45 \text{ min}} = 12.5 = \underline{13 \text{ gtt/min}}$$

7. Order: Methicillin 1 g every 6 hr

Pharmacy: 1 g/100mL over 30 minutes

Tubing: 10gtt/mL

$$\frac{\text{gtt}}{\text{Min}} = \frac{10 \text{ gtt}}{\text{mL}} \times \frac{100 \text{ mL}}{30 \text{ min}} = 33.3 = \underline{33 \text{ gtt/min}}$$

8. Order: Ciprofloxacin 250mg every 12 hrs

Pharmacy: 250 mg/250mL over 60 minutes

$$\frac{\text{mL}}{\text{hr}} = \frac{250 \text{ mL}}{250 \text{ mg}} \times \frac{250 \text{ mg}}{60 \text{ min}} \times \frac{60 \text{ min}}{1 \text{ hr}} = \underline{250 \text{ mL/hr}}$$

9. Order: NS 1L over 6 hours

Started at 0300 and at 0530 you notice that 280mL has infused on pump

$$\frac{1000\text{mL}}{6 \text{ hr}} = \underline{167 \text{ mL/hr}} \quad 1000\text{mL} - 280 = 720 \text{ mL left to infuse over 3.5 hours (should have 417.5mL in)}$$

$$\frac{\text{mL}}{\text{hr}} = \frac{720\text{mL}}{3.5 \text{ hr}} = \underline{205.7 \text{ mL/hr}}$$

# Insulin Math Practice Problems

**Jianjun Gao**



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