





### Calculating IV Drug Dose per Hour & Minute

- Example 1** Dextrose 5% in water with Amicar is infusing at a rate of 55 ml per hour. The IV solution was prepared by adding 5000 mg of Amicar to dextrose 5% in water. The final solution contains a total volume of 250 ml. How many mg are infusing per hour? How many mg are infusing per minute?

To find the mg/hr: To find the mg/minute:  
Convert the mg/hr

Step 1 - Write down infusion rate  
Step 2 - Write down IV concentration  
Step 3 - Reduce the units  
Step 4 - Perform the math

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Step 1   Step 2                      Step 4

$$\frac{55 \text{ ml}}{1 \text{ hr}} \times \frac{5000 \text{ mg}}{250 \text{ ml}} = \frac{55 \times 5000 \text{ mg}}{1 \times 250 \text{ hr}} = \frac{275,000 \text{ mg}}{250 \text{ hr}} = \frac{1,100 \text{ mg}}{\text{hr}}$$

Step 3

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Round your answer to the nearest whole number .  
We are infusing 18 mg/min.

$$\frac{1,100 \text{ mg}}{\text{hr}} \times \frac{1 \text{ hr}}{60 \text{ min}} = \frac{1,100 \times 1 \text{ mg}}{1 \times 60 \text{ min}} = \frac{1,100 \text{ mg}}{60 \text{ min}} = 18.33 \text{ mg/min}$$

### Calculating IV Drug Dose per Hour & Minute

- Example 2** Your patient is receiving an IV of 250 milliliters of 0.9% NS with 500 milligrams of the Inocor. The flow rate is 15 milliliters per hour. How many milligrams per hour is your patient receiving? How many milligrams per minute?

To find the mg/hr: To find the mg/minute:

Step 1 - Write down infusion rate Convert the mg/hr

Step 2 - Write down IV concentration

Step 3 - Reduce the units

Step 4 - Perform the math

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**Step 1**   **Step 2**                      **Step 4**

$$\frac{15 \text{ ml}}{1 \text{ hr}} \times \frac{500 \text{ mg}}{250 \text{ ml}} = \frac{15 \times 500 \text{ mg}}{1 \times 250 \text{ hr}} = \frac{7,500 \text{ mg}}{250 \text{ hr}} = \frac{30 \text{ mg}}{\text{hr}}$$

**Step 3**

### Calculating IV Drug Dose per Hour & Minute

- Example 2** Your patient is receiving an IV of 250 milliliters of 0.9% NS with 500 milligrams of the Inocor. The flow rate is 15 milliliters per hour. How many milligrams per hour is your patient receiving? How many milligrams per minute?

To find the ml/hr: To find the mg/minute:

Step 1 - Write down infusion rate Convert the mg/hr

Step 2 - Write down IV concentration

Step 3 - Reduce the units

Step 4 - Perform the math

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$$\frac{30 \text{ mg}}{1 \text{ hr}} \times \frac{1 \text{ hr}}{60 \text{ min}} = \frac{30 \times 1 \text{ mg}}{1 \times 60 \text{ min}} = \frac{30 \text{ mg}}{60 \text{ min}} = 0.5 \text{ mg/min}$$


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