

# Heparin Infusion Calculations

For safe patient care, the nurse needs to remember that heparin is a potent anticoagulant and the dose needs to be monitored carefully. Heparin can be administered via intermittent subcutaneous injection (usually every 12 hours) to prevent the formation of blood clots in high-risk patients. However, when a blood clot is present, the IV route is usually used to prevent the clot from becoming larger and to prevent the formation of new clots. Heparin therapy is often initiated with an IV bolus dose followed by a continuous IV infusion using an electronic infusion device (EID). Heparin is supplied in USP units. The dose is often adjusted daily based upon results of daily coagulation studies (partial thromboplastin time) or PTT.

The usual adult dose for heparin is between 20,000 and 40,000 units/day. The nurse needs to assess the daily dose and inform the prescriber when the dose exceeds 40,000 units in 24 hours.

**When using DA to calculate infusion rates for heparin delivered IV using an IV pump, the equation should be written as follows:**

$$\frac{\text{mL}}{\text{hr}} = \frac{\text{volume of IV fluid in mL}}{\text{total number of units in volume}} \times \frac{\text{units in dose}}{\text{time (hr)}}$$

**The DA equation for calculating the number of units infusing per hour when the mL/hr flow rate is known is**

$$\frac{\text{units}}{\text{hr}} = \frac{\text{total number of units in volume}}{\text{volume of IV fluid in mL}} \times \frac{\text{IV rate in mL}}{\text{time (hr)}}$$

# Heparin Math Calculation Practice

**Susan Garner Moore**



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