Infusion Rate Calculations: *General Rules for Units*

Drug Group	Examples	Units
Inotropes	*Dopamine* *Adrenaline* *Noradrenaline* *Milrinone*	mcg/kg/min
Vasopressin	*Argipressin/Vasopressin*	units/kg/hr
Sedation	*Morphine* *Midazolam* *Clonidine*	mcg/kg/hr
Prostin	*Dinoprostone*	nanograms/kg/min
Diuretics	*Furosemide*	mg/kg/hr

Infusion Rate Calculations: *mcg/kg/hr*

What does 1ml/hr of the infusion equal in mcg/kg/hr?

Convert the total dose of drug added to the syringe to micrograms *(mcg)*

Divide this by patient's weight *(in kg)*

Divide by total volume in syringe

You can then multiply this by the rate of the infusion (mls/hr) to get the dose (in mcg/kg/hr) being delivered

How do I calculate the rate in mls/hr of the infusion to deliver *X* mcg/kg/hr?

Multiply the specified dose *(in mcg/kg/hr)* by patient's weight *(in kg)*

Divide this number by the drug dose in the syringe *(must be in mcg)*

Multiply this by total volume in syringe

This calculated number will be the rate required in mls/hr to provide an infusion at a rate of *X* mcg/kg/hr

Infusion Rate Calculations: *mcg/kg/min*

What does 1ml/hr of the infusion equal in mcg/kg/min?

- Convert the total dose of drug added to the syringe to micrograms *(mcg)*
- Divide this by patient's weight *(in kg)*
- Divide this number by 60
- Divide by total volume in syringe
- **You can then multiply this by the rate of the infusion (mls/hr) to get the dose (in mcg/kg/min) being delivered**

How do I calculate the rate in mls/hr of the infusion to deliver *X* mcg/kg/min?

- Multiply the specified dose *(in mcg/kg/min)* by patient's weight *(in kg)*
- Multiply this number by 60
- Divide this number by the drug dose in the syringe *(must be in mcg)*
- Multiply this by total volume in syringe
- **This calculated number will be the rate required in mls/hr to provide an infusion at a rate of *X* mcg/kg/min**