

Manitoba Transfusion Best Practice Resource Manual

Appendix 16 Neonate, infants and Pediatrics- Initiation of Transfusion/Infusion of Blood, Blood Components and Plasma Protein Products

Neonate: Up to 6 weeks corrected	Red Blood Cells	Generally 10-20 mL/kg/dose rounded to the closest full unit (see physician orders for actual order)
		Transfuse over 3-4 hours
		Rate is calculated: $\text{Volume of transfusion (mL)} / \text{length of transfusion (hours)} = X \text{ mL/hr}$
		Prime administration set with product
		At end of transfusion flush with 1-5 mL normal saline to clear line
	Platelets	Generally 10 mL/kg/dose(see physician order)
		Transfuse over 1 to 1.5 hours according to vein/line size
		Rate is calculated: $\text{Volume of transfusion (mL)} / \text{length of transfusion (hours)} = X \text{ mL/hr}$
		Prime administration set with product
		At end of transfusion, flush line with 1-5 mL normal saline to clear line
	Cryoprecipitate Very seldom used	General dosing =1 unit per 10 kg to a maximum of 6 units (see physician order)
		Pool cryoprecipitate with 5-15 mL of normal saline
		Push cryoprecipitate via syringe over X minutes according to physicians order
		Do not filter cryoprecipitate
		At the end of the infusion flush with 1-5 mL normal saline to clear peripheral line; use 10-20 mL to clear vascular access device
	IVIG	General 0.5-1 gram/kg/dose rounded to bottle size (see physician order)
		Follow titration rate according to product monograph on BBM

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Infants greater than 15 kg	Red Blood Cells	Generally 10-20 mL/kg/dose rounded to the closest full unit (see physician orders for actual order)
		Transfuse over 3-4 hours
		Rate: initial rate is 1mL/kg/hr (max 50 mL/hr) for the first 15 minutes
		Subsequent rate is calculated $\text{Volume of transfusion (mL)} / \text{length of transfusion (hours)} = X \text{ mL/hr}$
		Prime administration set with the product
		At end of transfusion, flush line with 10-20 mL normal saline to clear the line
	Platelets	Usually 150 ml- 300ml (1/2 to one adult dose)(see physician order)
		Transfuse over 30-60 minutes according to vein/line size (recommend 1 hour)
		Rate: initial rate is 1 mL/kg/hour (maximum 50mL/hour for first 15 minute)
		Subsequent rate is calculated $\text{Volume of transfusion (mL)} / \text{length of transfusion (hours)} = X \text{ mL/hr}$
		Prime administration set with product
		At end of transfusion, flush line with 10-20 mL normal saline to clear the line
	IVIG	Follow titration rates according to product monograph found on BBM
		Compatible with D5W only (exception Gammagard S/D, Octagam is compatible with normal saline as well)
		Filter: see product monograph
		At end of infusion flush line with 10-20 mL of D5W (unless infusion Gammagard or Octagam, then use normal saline) to clear the line

For infants under 10kg or for those with concerns regarding fluid volume follow Neonate guidelines.