

Common Vesicants* - Adult Patients

Medication	IV Push			Infiltrate treatment
	Dose	Dilute	Rate	
Miscellaneous				
Dextrose	< 25 gm	Do not dilute	5 gm/min or 10 mL/min D50	Hyaluronidase, Warm Applic. Proc., (only treat if >D10%)
Mannitol	<200 gm	Do not dilute	6.25 g/min – to avoid administering crystals, visually inspect solution before IV push	Hyaluronidase, Warm Applic. Proc.
Promethazine	≤ 12.5 mg	MUST DILUTE with at least 10 mL NS	Over 30 seconds	Irritant, no treatment necessary
Sodium Thiopental	0.25 – 0.75 mg/kg	Dilute per kit instructions	Over 2 – 5 minutes	Irritant, no treatment necessary
Cardiovascular Agents				
Epinephrine	≤ 5 mg	Do not dilute	Over seconds	Phentolamine Proc.
Esmolol >10 mg/mL	<500 mcg/kg	Must use ≤ 10 mg/mL	Over 1 min	Irritant, no treatment necessary
Phenylephrine	≤ 400 mcg	Dilute to ≤ 100 mcg/mL	Over ≤ 400 mcg/min or ≤ 4 mL/min of 100 mcg/mL conc.	Phentolamine Proc.
Vasopressin (cardiac arrest only)	≤ 40 units	Do not dilute	Over seconds	Phentolamine Proc.
Electrolytes				
Calcium chloride (emergency use)	<1000 mg	Do not dilute	Over 1 minute	Hyaluronidase, Warm Applic. Proc.
Calcium gluconate (preferred)	<1000 mg	Do not dilute	Over 1 minute	Hyaluronidase, Warm Applic. Proc.
Sodium bicarbonate	≤ 50 mEq	Do not dilute and do NOT administer w/ calcium or catecholamines	Over 15 seconds (16g IV) or 30 seconds (18g IV) or 2 minutes (24 g IV)	Hyaluronidase, Warm Applic. Proc.

References: PAT030. Version 4.0; PAT031. Version 4.0; MDU003. Version 1.3.

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*Note: With the exception of sodium bicarbonate, all vesicant and irritant medications in the above tables have recommended rates that are compatible with a free-flowing 24 gauge IV or larger IV. Recommended rate for sodium bicarbonate IV push is specified by IV gauge.