



REGIONAL PEDIATRIC PARENTERAL DRUG MONOGRAPH

GENERIC NAME

norepinephrine



Effective Date: Dec 2011	CLASSIFICATION Inotropic Agent Vasopressor Agent	OTHER NAMES Levophed	PAGE 1 of 2
Revised Date: Dec 2022			

ADMINISTRATION POLICY:

IV Infusion – Administration restricted to nurses experience in ED/CARDIAC ROOM/ICU/PACU

RECONSTITUTION/DILUTION/ADMINISTRATION:

Available as: 1 mg/mL – 4 mL single vial dose, 4 mg/250 mL premixed bag (0.016 mg/mL)

IV Infusion: Pump Library: *Premixed solution preferred when available*

norepinephrine pediatrics HI

Drug Library	Dose Rate	Short Name	Care Unit
Yes	mcg/kg/min	nore32 p	Pediatric
Drug	Diluent	Final Volume (VTBI)	Final Concentration
32 mg (32 mL of 1 mg/mL)	250 mL NS	282 mL	0.114 mg/mL
Clinical Advisory: High Alert			
Soft Low Dose Limit: 0.05 mcg/kg/min		Soft High Dose Limit: 2 mcg/kg/min	

norepinephrine pediatrics LO

Drug Library	Dose Rate	Short Name	Care Unit
Yes	mcg/kg/min	nore4 p	Pediatric
Drug	Diluent	Final Volume (VTBI)	Final Concentration
4 mg premixed	250 mL premixed bag	250 mL	0.016 mg/mL
Clinical Advisory: High Alert			
Soft Low Dose Limit: 0.05 mcg/kg/min		Soft High Dose Limit: 2 mcg/kg/min	

Drug Library	Dose Rate	Short Name	Care Unit
Yes	mcg/kg/min	nore4 p	Pediatric
Drug	Diluent	Final Volume (VTBI)	Final Concentration
4 mg (4 mL of 1 mg/mL)	250 mL NS or D5W (remove 4 mL)	250 mL	0.016 mg/mL
Clinical Advisory: High Alert			
Soft Low Dose Limit: 0.05 mcg/kg/min		Soft High Dose Limit: 2 mcg/kg/min	



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<p>DOSAGE:</p> <p>Hypotension, Shock:</p> <p>Infusion: Initial: 0.05 to 0.1 mcg/kg/minute Increase by 0.05 to 0.1 mcg/kg/minute every 3 to 15 minutes until desired clinical response achieved</p> <p>Range: 0.05 to 2 mcg/kg/minute</p> <p>Maximum rate: 2 mcg/kg/minute</p> <p>Maximum concentration: Peripheral IV, IO, UC: 50 mcg/mL (0.05mg/mL)</p>			
<p>STABILITY/COMPATIBILITY:</p> <p>Stability of Final Admixture: 24 hours at room temperature</p> <p>Compatibility: Compatible in normal saline, D5W, combination dextrose-saline solutions, Lactated Ringers</p>			
<p>PRECAUTIONS, POTENTIAL ADVERSE REACTIONS:</p> <ul style="list-style-type: none"> • CV: Tachycardia, ectopic beats, dysrhythmias, conduction abnormalities, hypertension, anginal pain • GI: Nausea, vomiting • Neuro: Headache, anxiety, piloerection • Renal: Decreased urine output (especially with dosages greater than 10 mcg/kg/minutes), azotemia • Local: Vasoconstriction, venous streaking, gangrene of extremities, extravasation with tissue necrosis • Other: Dilated pupils; allergic reactions in patients sensitive to sulfites • Correct hypovolemia preferable before initiating norepinephrine • Increased risk of gangrene of extremities secondary to vasoconstriction with peripheral IV or UC administration, high dosages (greater than 3 mcg/kg/minute), or in patients with cold injury or occlusive vascular disease (even at low dosages) • phenytoin: Concurrent administration (especially rapid administration) – hypotension, bradycardia, seizures • Tricyclic antidepressants: increase pressor response to direct acting sympathomimetic agents such as norepinephrine; increase risk of dysrhythmia • Umbilical catheters: Tip of catheter must be in inferior vena cava (IVC); do not administer vasoconstrictive agents via a UC when the tip of the catheter is below the liver or in the portal venous circulation due to significant risk of local vasoconstriction and hepatic necrosis • MAO inhibitors (including linezolid): Severe hypertension during concurrent administration; start at 0.05 mcg/kg/minute and increase every 15 to 30 minutes • Contraindicated with sensitivity to sulfites • Uncorrected tachydysrhythmias or ventricular fibrillation 			
<p>ADDITIONAL NOTES AND NURSING CONSIDERATIONS:</p> <p>Required monitoring: Continuous cardiac and BP monitoring</p> <ul style="list-style-type: none"> • Peripheral administration into a large vein may be used only as an interim measure until central venous access is established 			