

MEDICATION SHEET

SCOPE: ALS, CCT			
MEDICATION:	DOPAMINE		
INTERVENTION:	<u>Classification</u> : Adrenergic Agonist Agent; Inotrope <u>Actions</u> : Stimulates both adrenergic and dopaminergic receptors, lower doses are mainly dopaminergic stimulating and produce renal and mesenteric vasodilation, higher doses also are both dopaminergic and		
	beta ₁ -adrenergic stimulating and produce cardiac stimulation and renal vasodilation; large doses stimulate alpha-adrenergic receptors causing vasoconstriction		
	 <u>Contraindications</u>: Hypersensitivity to sulfites (commercial preparation contains sodium bisulfite) Pheochromocytoma 		
	 Uncorrected tachyarrhythmia Ventricular fibrillation 		
	 Precautions: May cause increases in heart rate, increasing the risk of tachycardia and other tachyarrhythmias including ventricular arrhythmias 		
	 Vessel vesicant; ensure proper needle or catheter placement prior to and during infusion Use with caution in patients with active myocardial ischemia or recent myocardial infarction; may increase myocardial oxygen consumption 		
	MAOIs may cause prolonged hypertension with concurrent use Dosage:		
	I. <u>Neurogenic shock/Cardiogenic Shock/Decompensated Heart Failure</u> : a. Adult: i. IV/IO: 5-20 mcg/kg/min		
	II. <u>Symptomatic Bradycardia not responsive to external pacing</u> a. <u>Adult:</u> i. IV/IO: 5-20 mcg/kg/min		
	III. <u>Pediatric Septic Shock (COLD) /Pediatric Cardiogenic Shock</u> : a. Pediatric:		
	i. IV/IO: 5-20 mcg/kg/min, titrate by 5 mcg/kg/min Onset of Action: ~5 minutes (Adult)		
	Duration: <10 minutes (Adult)		
	<u>Adverse Effects</u> : Cardiovascular: Angina pectoris, atrial fibrillation, bradycardia, ectopic beats, hypertension, hypotension, palpitations, tachycardia, vasoconstriction, ventricular arrhythmia, ventricular conduction, widened QRS complex on ECG, anxiety, headache, gangrene (high dose), piloerection, increased serum glucose, nausea, vomiting, azotemia, increased intraocular pressure, mydriasis, polyuria, dyspnea		
	Special Considerations:		

If this is a patient care policy, the information contained herein is used to provide guidance in the care of patients, but should not, and does not replace or preclude the use of clinical judgment.

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Originator:		Original Date:	
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PROTOCOL

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	I. Low-dose dopamine for "renal protection" is no longer supported and has no effect on renal
	function
	II. Dopamine has exhibited nonlinear kinetics in children; with dose changes, may not achieve
	steady-state for ~1 hour rather than 20 minutes