

SCOPE: ALS, CCT	
MEDICATION:	NITROGLYCERIN (Nitro-Bid, Nitro-Dur, Tridil)
INTERVENTION:	<p><u>Classification:</u> Nitrate vasodilator</p> <p><u>Actions:</u> Vascular smooth muscle relaxation; dilation of peripheral arteries and veins, decreasing blood pressure, thereby reducing preload, myocardial oxygen demand, and afterload; dilates coronary arteries and improves collateral blood flow to ischemic areas</p> <p><u>Contraindications:</u></p> <ul style="list-style-type: none"> • Known hypersensitivity to nitrates • Recent use of erectile dysfunction medication (Cialis, Viagra, Levitra) • Restrictive cardiomyopathy, constrictive pericarditis • Hypotension (SBP <90) • Hypersensitivity to corn or corn products <p><u>Precautions:</u></p> <ul style="list-style-type: none"> • Inferior/Posterior MI • Caution in shock patients with depleted volume • Low cardiac output or right ventricular infarction • Risk of paradoxical bradycardia or increased angina pectoris • Sudden cessation of IV infusion can result in coronary vasospasm <p><u>Concentration:</u> 50 mg in 250 ml D5W or NS</p> <p><u>Dosage:</u></p> <ol style="list-style-type: none"> I. <u>Acute Coronary Syndrome/Acute Decompensated Heart Failure:</u> <ol style="list-style-type: none"> a. Adult/Pediatric: <ol style="list-style-type: none"> i. SL: 1 tab every 5 min as needed ii. IV/IO: Initiate at 5 mcg/min, titrate every 3-5 minutes to max dose of 200 mcg/min iii. Paste: 1 inch <p><u>Onset of Action:</u> SL: 2-5 mins, IV/IO: Immediate, Topical: 15-30 mins</p> <p><u>Duration:</u> SL: 10-30 mins, IV/IO: 3-5 mins, Topical: ~ 60 mins</p> <p><u>Adverse Effects:</u> Headache, lightheadedness, dizziness, syncope, hypotension, tachycardia, crescendo angina, nausea, vomiting, rebound hypertension and bradycardia</p> <p><u>Special Considerations:</u></p> <ol style="list-style-type: none"> I. May produce hypotension especially in Right-sided MI; paste/IV drips need to be discontinued if occurs II. Sympathomimetic may potentiate NTG effects

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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