

**St. Jude Medical Center
Department of Pharmacy Services
&
Pharmacy and Therapeutics Committee
Alternatives to Intravenous Nitroglycerin**

Clinical Indication	Alternatives	Dosing Information	Comments										
Acute Coronary Syndrome Or Hypertensive Urgency / Emergency	Nitroglycerin 2% Ointment	<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th style="width: 50%;">PASTE</th> <th style="width: 50%;">IV</th> </tr> </thead> <tbody> <tr> <td>0.5"</td> <td>5 mcg/min</td> </tr> <tr> <td>1.0"</td> <td>10 – 39 mcg/min</td> </tr> <tr> <td>1.5"</td> <td>40 – 59 mcg/min</td> </tr> <tr> <td>2.0"</td> <td>60 – 100 mcg/min</td> </tr> </tbody> </table>	PASTE	IV	0.5"	5 mcg/min	1.0"	10 – 39 mcg/min	1.5"	40 – 59 mcg/min	2.0"	60 – 100 mcg/min	Stop infusion 30 minutes after application of ointment.
		PASTE	IV										
0.5"	5 mcg/min												
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2.0"	60 – 100 mcg/min												
Nitroglycerin Aerosol (Spray)	1 spray (400 mcg) sublingually q 4 minutes is equivalent to 100 mcg/min IV infusion.	Nitrolingual – prime with 5 sprays Nitromist – prime with 10 sprays											
Acute Decompensated Heart Failure	Nitroglycerin Sublingual Tablet	100 mcg sublingual tablet = 70 - 80 mcg/min. May double dose after 5 minutes if BP stable	1-2 tabs q 5 min x 3. Consider transition to ointment or long-acting oral mono- or di-nitrate preparation.										
	Enalaprilat	0.625 – 1.25 mg IV											
	Hydralazine	5 – 10mg IV											
	Nitroprusside	0.3 – 10 mcg/kg/min	Avoid in pts with renal / hepatic failure Cyanide accumulation with doses > 2 mcg/kg/min. Thiocyanate accumulation with doses > 4 mcg/kg/min										
	Nicardipine	Elevated BP: 5 – 15 mg/hr ADHF: 1 mcg/kg/min											