

**CARDIAC SURGERY MANAGEMENT-MEDICAL MANUAL**

**Hypertension Management Chart**

<b>Name</b>	<b>Indications Features</b>	<b>Start</b>	<b>Frequency</b>	<b>Precautions</b>
<b>Nitroprusside</b>	Onset: 30 seconds Duration: 1-10 min 50 mg in 250 ml	0.25-2.0 mcg/kg/min		Thiocyanate levels Coronary steal
<b>Nitroglycerine</b>	Onset: Immediate Duration: 2-4 min half life. 50 mg in 250 ml	5 to10.0 mcg/min	Max: 500-600 mcg/min	Tachycardia Use non PVC tubing
<b>Beta Blockers</b> <b>Metoprolol</b> <b>Toprol, Lopressor</b>	Onset: 5-10 min Peak: 20 min Duration: 2-5 hr	5 mg IV at 5 min intervals X 3	50 mg bid or 100 mg bid PO	Bradycardia, hypotension, bronchospasm, worsens CHF
<b>Atenolol</b>	Onset: 2-4 hr Peak: 8-12 hr Duration: 24 hr		25-100, 50 mg bid Max: 100 mg bid	Bradycardia, hypotension, bronchospasm, worsens CHF
<b>Propranolol</b>	Onset: 1-2 min Peak: 5 min Duration: 3-6 hr	0.1 mg/kg IV push X 3 doses at 2-3 min interval		Bradycardia, hypotension, bronchospasm, worsens CHF
<b>Esmolol</b>	Onset: Immediate Peak: 1- 2 min Duration: 10-20 min	0.5 mg/kg/ over 1 min	Infusion: 0.05 mg/kg/min max: 0.3 mg/kg/min	Bradycardia, hypotension, bronchospasm, worsens CHF
<b>Labetalol</b>	Onset: 2 to 5 min Duration: 2-4 hours	5-10 mg bolus or 0.25 mg/kg/ over 2 min	1-4 mg/min IV drip 200 mg in 200 ml drip	0.5 mg/kg every 15 min bolus
<b>Diltiazem</b>	Onset: 5-10 min Peak: 15-20 min Duration: 10-15 min	Bolus 10-20 mg IV	Infusion: 50-200 mcg/kg/min	Hypotension. Avoid in WPW, wise QRS tachycardia
<b>Nicardipine</b>	Onset: in minutes Duration:	2.5 mg over 5 min X 4 times at 10 min intervals  50 mg/250 ml	Infusion: 2.5 to 5 mg/hr	
<b>Enalapril IV</b>	Onset: 10-20 min Duration: 6 h	1.25 to 5 mg q 6 h IV slowly over 5 min		Hypotension. Can't titrate the dose