



## NEONATAL MEDICATION PROTOCOLS

**ISOPRENALINE**  
Created by: NCCU  
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NCCU Clinical Guidelines  
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<b>DRUG:</b>	<b>ISOPRENALINE</b>
<b>PRESENTATION:</b>	Ampoule: 1000 microgram/5mL
<b>ACTION &amp; INDICATION:</b>	Cardiac stimulation, peripheral vasodilation, relaxation of bronchial smooth muscle  Acts on Beta-1 and Beta-2 adrenergic receptors  To treat shock, cardiac arrest, ventricular arrhythmias due to AV block, bronchospasm.
<b>DOSE:</b>	0.05 - 0.5 microgram/kg/minute  Maximum dose 2 microgram/kg/minute  Dosage often titrated according to heart rate
<b>PREPARATION:</b>	<b>Use solution prepared in Pharmacy if available.</b>  Diluent: 0.9% Sodium chloride and Glucose solutions.  To give a dose of 0.1 microgram/kg/minute when infused at 1mL/hour:  Take 300 microgram of isoprenaline per kg of baby's weight (1.5mL/kg) and dilute to 50mL.  If a different concentration is required, refer to the Calculation of Drug Infusion table.
<b>ADMINISTRATION:</b>	Intravenous infusion via syringe pump
<b>ADVERSE EFFECTS:</b>	Tachycardia – continuously monitor heart rate.  Cardiac dysrhythmia, hypertension, hypotension, vomiting, tremor
<b>REFERENCES:</b>	Neofax 2013
<b>DATE:</b>	September 2013