

## Noradrenaline

CAUTION: High Administration Risk Rating					
Form	Ampoules containing 1mg/mL (1:1000) Noradrenaline as Noradrenaline tartrate.				
Reconstitution	<ul> <li>Already in solution. Further dilution is required before administration.</li> <li>Draw up using a 5 micron filter needle</li> </ul>				
	Use gloves when opening ampoules				
	<b>Dilute further before IV administration.</b> Discoloured solutions or solutions containing precipitate should not be used.				
Compatibility & Stability	Glucose 5%				
Administration	Central IV Infusion (critical care only) Use a syringe driver to control the rate of infusion. Noradrenaline is usually prescribed as a "microgram/minute" dose for adults. The usual range is 0-30 microgram/minute titrated to desired effect. Doses outside this range (up to 80 microgram/min) may be required in some patients.				
	Single Strength Noradrenaline Add 3mg Noradrenaline (3mL) to 47ml Glucose 5% to give 50mL of a solution containing 60microgram/ml Noradrenaline. Infusion rate of 1mL/hr = 60microgram/hr = 1microgram/min 1mL/hr = 1microgram/min 2mL/hr = 2microgram/min 3mL/hr = 3microgram/min				
	Double Strength Noradrenaline         Add 6mg Noradrenaline (6mL) to 44mL Glucose 5% to give 50mL of a solution containing 120microgram/mL Noradrenaline.         Infusion rate of 1mL/hr = 120microgram/hr = 2microgram/min         1mL/hr = 2microgram/min         2mL/hr = 4microgram/min         3mL/hr = 6microgram/min				
	Quadruple Strength Noradrenaline (ITU only)         Add 12mg Noradrenaline (12mL) to 38ml Glucose 5% to give 50mL of a solution containing 240microgram/mL Noradrenaline.         Infusion rate of 1mL/hr = 240microgram/hr = 4microgram/min         1mL/hr = 4microgram/min         2mL/hr = 8microgram/min         3mL/hr = 12microgram/min				

This information has been summarised to act as a guide for those administering IV medication. The monograph should be used in conjunction with the drug data sheet and BNF for information on dose, adverse effects, cautions and contra-indications. Further information is available from Pharmacy on 22146 or 22542



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	Peripheral IV infusion (where no Central access)				
	Use 1:1,000 (1mg/mL ampoule) Add 4mg (4mL) to 246mL Glucose 5% (conc. <b>16 microgram/mL</b> ) Administer via infusion pump Starting dose 0.05microgram/kg/min UP Titrate to desired effect - Maximum rate 0.13 microgram/kg/min (8 microgram/kg/h) Rate (mL/hour) for microgram/kg/min doses using 4mg/250mL infusion*				
	Dosage (microgram/kg/min)	50kg	80kg	100kg	
	0.05 microgram/kg/min	9	15	19	
	0.1 microgram/kg/min	19	30	38	
	Max 0.13	25	40	50	
	*Doses rounded for convenience				
Monitoring	Continuous blood pressure and ECG monitoring required. When administered via an infusion, use invasive blood pressure monitoring and monitor blood glucose.				
Extravasation	If a central venous access device is not available, use a large peripheral vein and a concentration of noradrenaline suitable for peripheral venous access. Monitor the insertion site closely (as may cause venous irritation) using a recognised phlebitis scoring tool. Re-site cannula at first signs of inflammation. Risk with extravasation resulting in tissue damage/necrosis if given peripherally as noradrenaline is a vasoconstrictor and has a low pH. If extravasation occurs, use warm compress + <b>Phentolamine</b> or consider application of 2.5cm <b>Nitroglycerin 0.2%</b> paste to area of extravasation				
Notes	<ul> <li>Infuse through a central venous catheter using a syringe driver to control the rate of infusion.</li> <li>Do not use if brown colour or precipitate is visible in solution.</li> <li><u>IAEM-Clinical-Guideline-Peripheral-Vasopressors-V1.0.pdf</u></li> <li><u>Extravasation injury from cytotoxic and other noncytotoxic vesicants in adults - UpToDate</u></li> </ul>				

Information provided relates to Noradrenaline (Hospira)

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