

Noradrenaline

CAUTION: High Administration Risk Rating

Form	- Ampoules containing 2mg/2mL (1:1000) Noradrenaline base 1mg/mL as Noradrenaline tartrate (Pfizer) - Ampoules containing 4mg/4mL (1:1000) Noradrenaline base 1mg/mL as Noradrenaline tartrate (AS KALCEKS)	Store below 25°C												
Reconstitution	Already in solution. Draw up using a 5 micron filter needle Use gloves when opening ampoules Dilute further before IV administration. 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 – 60 microgram/mL Add 3mg Noradrenaline (3mL) to 47ml Glucose 5% to give 50mL of a solution containing 60microgram/ml Noradrenaline. <table><tr><td>Infusion rate of 1mL/hr = 60microgram/hr = 1microgram/min</td></tr><tr><td>1mL/hr = 1microgram/min</td></tr><tr><td>2mL/hr = 2microgram/min</td></tr><tr><td>3mL/hr = 3microgram/min</td></tr></table> Double Strength Noradrenaline – 120 microgram/mL Add 6mg Noradrenaline (6mL) to 44mL Glucose 5% to give 50mL of a solution containing 120microgram/mL Noradrenaline. <table><tr><td>Infusion rate of 1mL/hr = 120microgram/hr = 2microgram/min</td></tr><tr><td>1mL/hr = 2microgram/min</td></tr><tr><td>2mL/hr = 4microgram/min</td></tr><tr><td>3mL/hr = 6microgram/min</td></tr></table> Quadruple Strength Noradrenaline (ITU only) – 240 microgram/mL Add 12mg Noradrenaline (12mL) to 38ml Glucose 5% to give 50mL of a solution containing 240microgram/mL Noradrenaline. <table><tr><td>Infusion rate of 1mL/hr = 240microgram/hr = 4microgram/min</td></tr><tr><td>1mL/hr = 4microgram/min</td></tr><tr><td>2mL/hr = 8microgram/min</td></tr><tr><td>3mL/hr = 12microgram/min</td></tr></table>		Infusion rate of 1mL/hr = 60microgram/hr = 1microgram/min	1mL/hr = 1microgram/min	2mL/hr = 2microgram/min	3mL/hr = 3microgram/min	Infusion rate of 1mL/hr = 120microgram/hr = 2microgram/min	1mL/hr = 2microgram/min	2mL/hr = 4microgram/min	3mL/hr = 6microgram/min	Infusion rate of 1mL/hr = 240microgram/hr = 4microgram/min	1mL/hr = 4microgram/min	2mL/hr = 8microgram/min	3mL/hr = 12microgram/min
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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

	Peripheral IV infusion (where no Central access) Use 1:1,000 (1mg/mL ampoule) Add 4mg (4mL) to 246mL Glucose 5% (conc. 16 microgram/mL) 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) <table><tr><th colspan="13">Rate (mL/hour) for microgram/min doses using 16 microgram/mL noradrenaline*</th></tr><tr><th>Rate (mL/hr)</th><td>5</td><td>10</td><td>15</td><td>20</td><td>25</td><td>30</td><td>35</td><td>40</td><td>45</td><td>50</td><td>55</td><td>60</td></tr><tr><th>Dose(microgram/min)</th><td>1.3</td><td>2.7</td><td>4</td><td>5.3</td><td>6.7</td><td>8</td><td>9.3</td><td>10.7</td><td>12</td><td>13.3</td><td>14.7</td><td>16</td></tr><tr><th colspan="13">Rate (mL/hour) for max rate 0.13 microgram/kg/min noradrenaline*</th></tr><tr><th>Weight (kg)</th><td>50</td><td>60</td><td>70</td><td>80</td><td>90</td><td>100</td><td>110</td><td>120</td><td>130</td><td colspan="3"></td></tr><tr><th>Max rate (mL/hr) @ max 0.13 microgram/kg/min</th><td>24.4</td><td>29.3</td><td>34.1</td><td>39</td><td>43.9</td><td>48.8</td><td>53.6</td><td>58.5</td><td>63.4</td><td colspan="3"></td></tr></table> *Doses rounded for convenience	Rate (mL/hour) for microgram/min doses using 16 microgram/mL noradrenaline*													Rate (mL/hr)	5	10	15	20	25	30	35	40	45	50	55	60	Dose(microgram/min)	1.3	2.7	4	5.3	6.7	8	9.3	10.7	12	13.3	14.7	16	Rate (mL/hour) for max rate 0.13 microgram/kg/min noradrenaline*													Weight (kg)	50	60	70	80	90	100	110	120	130				Max rate (mL/hr) @ max 0.13 microgram/kg/min	24.4	29.3	34.1	39	43.9	48.8	53.6	58.5	63.4			
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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 + Phentolamine or consider application of 2.5cm Nitroglycerin 0.2% paste to area of extravasation																																																																														
Notes	• Infuse through a central venous catheter using a syringe driver to control the rate of infusion. • Do not use if brown colour or precipitate is visible in solution. • IAEM-Clinical-Guideline-Peripheral-Vasopressors-V1.0.pdf • Extravasation injury from cytotoxic and other noncytotoxic vesicants in adults - UpToDate																																																																														

Information provided relates to Noradrenaline (Hospira & AS KALCEKS) last updated 12/5/26