

Adrenaline

CAUTION: High Administration Risk Rating													
Form	1:10,000 (1mg per 10mL) prefilled syringe. 1:1,000 (1mg per mL) ampoules as acid tartrate.												
Dose	Adrenaline is usually prescribed as a " mcg/minute " dose for adults. The usual range is 1-30 mcg/min, titrated to desired effect, but can go higher (up to 80mcg/min).												
Reconstitution	Prefilled syringe: Already in solution Ampoule: Already in solution. Dilute further before IV administration.												
Compatibility & Stability	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Glucose 5% Sodium Chloride 0.9%</td> <td style="width: 50%;">Diluted solutions are stable for 24 hours Protect infusion from light</td> </tr> </table>	Glucose 5% Sodium Chloride 0.9%	Diluted solutions are stable for 24 hours Protect infusion from light										
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Administration	<p>IV Injection: For emergency use only Using 1:10,000 prefilled syringe give by rapid IV injection. IV injection administered via a peripheral vein should be followed by a 20mL flush of Sodium Chloride 0.9% to aid entry into the central circulation.</p> <p>IV Infusion: Use 1:1000 ampoules and administer through a Central Line, using a syringe driver to control the rate of infusion.</p> <p style="text-align: center;">Single Strength Adrenaline</p> <p>Add 3mg Adrenaline (3mL) to 47mL Glucose 5% to give 50mL of a solution containing 60mcg/mL Adrenaline.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">Infusion rate of 1mL/hr = 60mcg/hr = 1mcg/min</td> </tr> <tr> <td style="text-align: center;">1mL/hr = 1mcg/min</td> </tr> <tr> <td style="text-align: center;">2mL/hr = 2mcg/min</td> </tr> <tr> <td style="text-align: center;">3mL/hr = 3mcg/min</td> </tr> </table> <p style="text-align: center;">Double Strength Adrenaline</p> <p>Add 6mg Adrenaline (6mL) to 44mL Glucose 5% to give 50mL of a solution containing 120mcg/mL Adrenaline.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">Infusion rate of 1mL/hr = 120mcg/hr = 2mcg/min</td> </tr> <tr> <td style="text-align: center;">1mL/hr = 2mcg/min</td> </tr> <tr> <td style="text-align: center;">2mL/hr = 4mcg/min</td> </tr> <tr> <td style="text-align: center;">3mL/hr = 6mcg/min</td> </tr> </table> <p style="text-align: center;">Quadruple Strength Adrenaline</p> <p>Add 12mg Adrenaline (12mL) to 38mL Glucose 5% to give 50mL of a solution containing 240mcg/mL Adrenaline.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">Infusion rate of 1mL/hr = 240mcg/hr = 4mcg/min</td> </tr> <tr> <td style="text-align: center;">1mL/hr = 4mcg/min</td> </tr> <tr> <td style="text-align: center;">2mL/hr = 8mcg/min</td> </tr> <tr> <td style="text-align: center;">3mL/hr = 12mcg/min</td> </tr> </table>	Infusion rate of 1mL/hr = 60mcg/hr = 1mcg/min	1mL/hr = 1mcg/min	2mL/hr = 2mcg/min	3mL/hr = 3mcg/min	Infusion rate of 1mL/hr = 120mcg/hr = 2mcg/min	1mL/hr = 2mcg/min	2mL/hr = 4mcg/min	3mL/hr = 6mcg/min	Infusion rate of 1mL/hr = 240mcg/hr = 4mcg/min	1mL/hr = 4mcg/min	2mL/hr = 8mcg/min	3mL/hr = 12mcg/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 22142 or 22546.

Monitoring	<ul style="list-style-type: none"> • Arterial line monitoring is strongly recommended.
Extravasation	<ul style="list-style-type: none"> • Tissue infiltration may lead to local ischemia. Tissue necrosis may occur due to low ph.
Additional Information	<ul style="list-style-type: none"> • Infuse through a central venous catheter, using a syringe driver to control the rate of infusion.

Information provided relates to Adrenaline manufactured by MercuryPharma and prefilled syringes manufactured by Aurum

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Owner Denise Leamy, Miriam Flynn Pharmacy Department CUH, Version 1 Updated May 2022.