

## Adrenaline

<b>CAUTION: High Administration Risk Rating</b>													
<b>Form</b>	1:10,000 (1mg per 10mL) prefilled syringe. 1:1,000 (1mg per mL) ampoules as acid tartrate.												
<b>Dose</b>	Adrenaline is usually prescribed as a " <b>mcg/minute</b> " dose for adults. The usual range is 1-30 mcg/min, titrated to desired effect, but can go higher (up to 80mcg/min).												
<b>Reconstitution</b>	<b>Prefilled syringe:</b> Already in solution <b>Ampoule:</b> Already in solution. Dilute further before IV administration.												
<b>Compatibility &amp; Stability</b>	<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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<b>Administration</b>	<p><b>IV Injection: For emergency use only</b> 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><b>IV Infusion:</b> Use 1:1000 ampoules and administer through a <b>Central Line</b>, using a syringe driver to control the rate of infusion.</p> <p style="text-align: center;"><b>Single Strength Adrenaline</b></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;"><b>Double Strength Adrenaline</b></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;"><b>Quadruple Strength Adrenaline</b></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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<b>Monitoring</b>	<ul style="list-style-type: none"> <li>• Arterial line monitoring is strongly recommended.</li> </ul>
<b>Extravasation</b>	<ul style="list-style-type: none"> <li>• Tissue infiltration may lead to local ischemia. Tissue necrosis may occur due to low ph.</li> </ul>
<b>Additional Information</b>	<ul style="list-style-type: none"> <li>• Infuse through a central venous catheter, using a syringe driver to control the rate of infusion.</li> </ul>

**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.*