



ADULT




# PIPERACILLIN with TAZOBACTAM

This document should be read in conjunction with this [DISCLAIMER](#)

[Antimicrobial Restriction – Monitored](#)

<b>Presentation</b>	Vial: Piperacillin 4g with Tazobactam 500mg												
<b>Dose</b>	<p><b><u>Mixed aerobic and anaerobic infections (including <i>P. aeruginosa</i>)</u></b></p> <p><b>IV infusion:</b></p> <p>Dose is expressed as piperacillin component and is dependent on renal function:</p> <table border="1"> <thead> <tr> <th>Creatinine Clearance</th> <th>Dose</th> <th>Dose frequency</th> </tr> </thead> <tbody> <tr> <td>More than 40mL/min</td> <td>2 - 4g</td> <td>6 to 8 hrs (Max 24g daily)</td> </tr> <tr> <td>20 - 40mL/min</td> <td>2 - 4g</td> <td>8 hrs</td> </tr> <tr> <td>Less than 20mL/min</td> <td>2 - 4g</td> <td>12 hrs</td> </tr> </tbody> </table>	Creatinine Clearance	Dose	Dose frequency	More than 40mL/min	2 - 4g	6 to 8 hrs (Max 24g daily)	20 - 40mL/min	2 - 4g	8 hrs	Less than 20mL/min	2 - 4g	12 hrs
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<b>Administration</b>	<p><b><u>IV Infusion</u></b></p> <p><b>Step 1 Reconstitution:</b> Reconstitute vial with 20mL of sodium chloride 0.9% or water for injections</p> <p><b>Step 2 Dilution:</b> Dilute to 50 - 100mL in sodium chloride 0.9% or glucose 5%</p> <p><b>Step 3 Administration:</b> Infuse over 20 to 30 minutes</p>												
<b>Pregnancy</b>	<p><b>1<sup>st</sup> Trimester:</b> Safe to use</p> <p><b>2<sup>nd</sup> Trimester:</b> Safe to use</p> <p><b>3<sup>rd</sup> Trimester:</b> Safe to use</p>												
<b>Breastfeeding</b>	Safe to use												
<b>Monitoring</b>	<p>Monitor complete blood count and renal and hepatic function during prolonged high dose treatment (&gt;10 days)</p> <p>Contraindicated in patients with severe hypersensitivity to penicillins, carbapenems and cephalosporin antibiotics</p>												

<p><b>Clinical Guidelines and Policies</b></p>	<p><a href="#">Antibiotic treatment for Urinary Tract Infection</a></p> <p><a href="#">Maternal Sepsis and Septic Shock: detection, investigation and management</a></p> <p><a href="#">Antimicrobial Stewardship (AMS) policy</a></p> <p><a href="#">Intravenous Medications – procedure for reconstitution and administration</a></p> <p><a href="#">Standard Procedures for Reconstitution and Administration of Intravenous Drugs</a></p>
<p><b>References</b></p>	<p>Australian Medicines Handbook. Piperacillin with tazobactam. In: Australian Medicines Handbook [Internet]. Adelaide (South Australia): Australian Medicines Handbook; 2017 [cited 2017 Nov 19]. Available from: <a href="https://amhonline.amh.net.au/">https://amhonline.amh.net.au/</a></p> <p>Society of Hospital Pharmacists of Australia. Piperacillin with tazobactam. In: Australian Injectable Drugs Handbook [Internet]. [St Leonards, New South Wales]: Health Communication Network; 2017 [cited 2017 Nov 19]. Available from: <a href="http://aidh.hcn.com.au">http://aidh.hcn.com.au</a></p> <p>The Royal Women's Hospital. Piperacillin with tazobactam. In: Pregnancy and Breastfeeding Medicines Guide [Internet]. Parkville (Victoria): The Royal Women's Hospital; 2017 [cited 2017 Nov 19]. Available from: <a href="https://thewomenspbmg.org.au/">https://thewomenspbmg.org.au/</a></p>

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