



ADULT Medication Monograph




# MEROPENEM

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

[Formulary – Restricted](#)

<b>Class</b>	Carbapenem antibiotic									
<b>Presentation</b>	Vial: 500mg, 1g									
<b>Storage</b>	Store at room temperature, below 25°C									
<b>Dose</b>	<p><b><u>Severe mixed aerobic and anaerobic infections</u></b></p> <p><b>IV:</b></p> <p>0.5 - 1g every 8 hours. Maximum 2g every 8 hours</p> <p><b>For renal impairment:</b></p> <table border="1"> <thead> <tr> <th>Creatinine Clearance</th> <th>Dose frequency</th> </tr> </thead> <tbody> <tr> <td>26–50 mL/minute</td> <td>chosen dose every 12 hours</td> </tr> <tr> <td>10–25 mL/minute</td> <td>half the chosen dose every 12 hours</td> </tr> <tr> <td>&lt;10 mL/minute</td> <td>half the chosen dose every 24 hours</td> </tr> </tbody> </table>		Creatinine Clearance	Dose frequency	26–50 mL/minute	chosen dose every 12 hours	10–25 mL/minute	half the chosen dose every 12 hours	<10 mL/minute	half the chosen dose every 24 hours
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<b>Administration</b>	<p><b><u>IV Injection</u></b></p> <p><b>Step 1 Reconstitution:</b> Reconstitute the 500mg vial with 10mL or the 1g vial with 20 mL of water for injections. Shake well before use.</p> <p><b>Step 2 Administration:</b> Inject over 5 minutes</p> <p><b><u>IV Infusion</u></b></p> <p><b>Step 1 Reconstitution:</b> As above</p> <p><b>Step 2 Dilution:</b> Dilute the dose with 50 - 200 mL of sodium chloride 0.9% or glucose 5%</p> <p><b>Step 3 Administration:</b> Infuse over 15 to 30 minutes</p>									

<b>Pregnancy</b>	<p><b>1<sup>st</sup> Trimester:</b> Considered safe to use</p> <p><b>2<sup>nd</sup> Trimester:</b> Considered safe to use</p> <p><b>3<sup>rd</sup> Trimester:</b> Considered safe to use</p>
<b>Breastfeeding</b>	Considered safe to use
<b>Monitoring</b>	Monitor renal function, hepatic function and complete blood count during prolonged treatment
<b>Clinical Guidelines and Policies</b>	<p><b>HDWA Policies:</b> <a href="#">Formulary ONE</a></p> <p><b>WNHS Policies:</b> WNHS Policy: <a href="#">Antimicrobial Stewardship</a></p> <p><b>KEMH Clinical Guidelines:</b> <a href="#">Sepsis and septic shock: Antibiotics for adult patients at KEMH</a></p> <p><b>KEMH Pharmaceutical &amp; Medicines Management Guidelines:</b> KEMH Pharmaceutical &amp; Medicines Management Guideline: <a href="#">Medication Administration</a></p>
<b>References</b>	<p>Australian Medicines Handbook. Meropenem. In: Australian Medicines Handbook [Internet]. Adelaide (South Australia): Australian Medicines Handbook; 2017 [cited 2017 Sep 20]. Available from: <a href="https://amhonline.amh.net.au/">https://amhonline.amh.net.au/</a></p> <p>The Royal Women's Hospital. Meropenem. In: Pregnancy and Breastfeeding Medicines Guide [Internet]. Parkville (Victoria): The Royal Women's Hospital; 2017 [cited 2017 Sep 20]. Available from: <a href="https://thewomenspbmg.org.au/">https://thewomenspbmg.org.au/</a></p> <p>Society of Hospital Pharmacists of Australia. Meropenem. In: Australian Injectable Drugs Handbook [Internet]. [St Leonards, New South Wales]: Health Communication Network; 2017 [cited 2017 Sep 20]. Available from: <a href="http://aidh.hcn.com.au">http://aidh.hcn.com.au</a></p> <p>Therapeutic Guidelines. Empirical regimens for adults with hospital-acquired sepsis or septic shock, source not apparentIn: eTG complete [Internet]. West Melbourne (Victoria): Therapeutic Guidelines; 2019 [cited 2020 Mar 25]. Available from: <a href="https://tgidcdp.tg.org.au">https://tgidcdp.tg.org.au</a></p>

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