



## NEONATAL Medication Monograph




# METRONIDAZOLE

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

**Restricted:** Requires Neonatologist or Microbiologist review within 24 hours of initiation

<b>Presentation</b>	<b>IV Infusion:</b> 500mg/100mL = 5mg/mL <b>Oral suspension:</b> 200mg/5mL = 40mg/mL																		
<b>Classification</b>	Nitroimidazole antimicrobial Metronidazole is active against Gram positive and Gram negative anaerobic bacteria and protozoa																		
<b>Indication</b>	Treatment and prophylaxis of anaerobic or protozoal infections																		
<b>Dose</b>	<b><u>All indications:</u></b> <b>IV/Oral:</b> <table border="1"> <thead> <tr> <th>Corrected Gestational Age</th> <th>Postnatal Age</th> <th>Loading Dose</th> <th>Maintenance Dose</th> </tr> </thead> <tbody> <tr> <td rowspan="2">&lt; 44 weeks</td> <td>&lt; 7 days</td> <td>15mg/kg/dose</td> <td>7.5mg/kg/dose <b>Every 24 hours</b></td> </tr> <tr> <td>≥ 7 days</td> <td>15mg/kg/dose</td> <td>7.5mg/kg/dose <b>Every 12 hours</b></td> </tr> <tr> <td>≥ 44 weeks</td> <td>All</td> <td>15mg/kg/dose</td> <td>7.5mg/kg/dose <b>Every 8 hours</b></td> </tr> </tbody> </table>				Corrected Gestational Age	Postnatal Age	Loading Dose	Maintenance Dose	< 44 weeks	< 7 days	15mg/kg/dose	7.5mg/kg/dose <b>Every 24 hours</b>	≥ 7 days	15mg/kg/dose	7.5mg/kg/dose <b>Every 12 hours</b>	≥ 44 weeks	All	15mg/kg/dose	7.5mg/kg/dose <b>Every 8 hours</b>
Corrected Gestational Age	Postnatal Age	Loading Dose	Maintenance Dose																
< 44 weeks	< 7 days	15mg/kg/dose	7.5mg/kg/dose <b>Every 24 hours</b>																
	≥ 7 days	15mg/kg/dose	7.5mg/kg/dose <b>Every 12 hours</b>																
≥ 44 weeks	All	15mg/kg/dose	7.5mg/kg/dose <b>Every 8 hours</b>																
<b>Monitoring</b>	Full blood count																		
<b>Dose Adjustment</b>	Dose adjustment may be required in renal and hepatic impairment																		
<b>Guidelines &amp; Resources</b>	WNHS Policy: <a href="#">Antimicrobial Stewardship</a>																		

<b>Compatible Fluids</b>	Glucose 5%, Sodium Chloride 0.9%
<b>Preparation</b>	<b>IV Infusion:</b> use undiluted
<b>Administration</b>	<b>IV infusion:</b> Infuse over 20 to 30 minutes  <b>Oral:</b> Administer dose 30 minutes to 1 hour before feeds
<b>Adverse Reactions</b>	Gastrointestinal effects, peripheral neuropathy – discontinue immediately, leucopenia, CNS effects, seizures (rare)
<b>Storage</b>	<b>IV/ Oral:</b> Store below 25°C. Protect from light Discard IV bag immediately after use.
<b>Interactions</b>	Metronidazole interacts with other medicines; contact Pharmacy for further information.
<b>References</b>	Truven Health Analytics. Metronidazole. In: NeoFax [Internet]. Greenwood Village (CO): Truven Health Analytics; 2019 [cited 2019 October]. Available from: <a href="https://neofax.micromedexsolutions.com/">https://neofax.micromedexsolutions.com/</a>  Paediatric Formulary Committee. BNF for Children: 2019. Pharmaceutical Press; 2019.  Society of Hospital Pharmacists of Australia. Metronidazole. In: Australian Injectable Drugs Handbook [Internet]. [St Leonards, New South Wales]: Health Communication Network; 2019 [cited 2019 October]. Available from: <a href="http://aidh.hcn.com.au">http://aidh.hcn.com.au</a>

Document owner:	Head of Department - Neonatology		
Author / Reviewer:	KEMH & PCH Pharmacy / Neonatology Directorate		
Date first issued:	October 2008	Version:	3.1
Last reviewed:	February 2020	Next review date:	February 2023
Endorsed by:	Neonatal Directorate Management Group	Date:	February 2020
Standards Applicable:	NSQHS Standards: 1  Governance 3  Infection Control 4  Medication Safety;		
<b>Printed or personally saved electronic copies of this document are considered uncontrolled.          Access the current version from the WNHS website.</b>			