



NEONATAL

# FLUCONAZOLE




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>Vial:</b> 200mg/100mL = 2mg/mL <b>Oral suspension:</b> 50mg/5mL= 10mg/mL							
<b>Classification</b>	Azole antifungal							
<b>Indication</b>	Treatment of systemic candida infections Prophylaxis against candida colonisation in very low birthweight infants							
<b>Contraindications</b>	Known hypersensitivity to fluconazole or related azole antifungal or any excipient of the product Fluconazole should not be used in combination with other drugs that prolong the QT interval AND are metabolised by CYP3A4 – <i>contact pharmacy for further information</i> Caution in patients with hepatic impairment due to the risk of serious liver toxicity.							
<b>Dose</b>	<b><u>Treatment - Systemic infections</u></b> <b>Oral/IV:</b> <table border="1"> <tr> <td>Consider a loading dose <i>(where appropriate)</i></td> <td>25mg/kg/dose</td> </tr> <tr> <td>Maintenance dose</td> <td>12mg/kg/dose daily <i>Duration is dependent on clinical situation - Consult microbiology</i></td> </tr> </table> <b><u>Prophylaxis</u></b> <table border="1"> <tr> <td>Dose</td> <td>6mg/kg/dose TWICE Weekly</td> </tr> </table>		Consider a loading dose <i>(where appropriate)</i>	25mg/kg/dose	Maintenance dose	12mg/kg/dose daily <i>Duration is dependent on clinical situation - Consult microbiology</i>	Dose	6mg/kg/dose TWICE Weekly
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<b>Dose Adjustment</b>	Dose reduction is recommended in patients with renal impairment. <i>Consult Microbiology</i>							

<b>Monitoring</b>	Liver function (AST, ALT, alkaline phosphates), renal function tests, serum potassium, CBC, platelets for long term use
<b>Guidelines &amp; Resources</b>	WNHS Policy: <a href="#">Antimicrobial Stewardship</a>
<b>Compatible Fluids</b>	Use undiluted Glucose 5%, Sodium chloride 0.9%
<b>Preparation</b>	<b>IV:</b> Available from CIVAS (KEMH & PCH) Use undiluted  <b>Oral:</b> <b>Reconstitution:</b> Add 24mL of Water for Irrigation to the powder for suspension in the bottle. Shake well. Concentration is 50mg/5mL = <u>10mg/mL</u> Discard any remaining suspension after 14 days
<b>Administration</b>	<b>IV Infusion:</b> Infuse over 1 to 2 hours Infuse doses greater than 6mg/kg over 2 hours <b>Maximum rate:</b> 200mg/hour  <b>Oral:</b> May be given at any time with regard to feeds
<b>Adverse Reactions</b>	<b>Common:</b> rash, headache, dizziness, nausea, vomiting, abdominal pain, diarrhoea, reversible elevated liver enzymes <b>Rare:</b> oliguria, hypokalaemia, dizziness, seizures, Stevens-Johnson syndrome; prolonged QT interval, torsades de pointes (both very rare)
<b>Storage</b>	<b>Vial:</b> Store at room temperature - below 25°C, protect from light <b>Powder for reconstitution:</b> Store at room temperature - below 25°C <b>Reconstituted suspension:</b> Refrigerate- do not freeze Discard 14 days after reconstitution
<b>Interactions</b>	Fluconazole has been shown to prolong the QT interval; it should be used with caution in combination with other drugs that may also prolong the QT interval due to the increased risk of arrhythmias  Alters metabolism of phenytoin, barbiturates, caffeine, midazolam. Monitor levels of these drugs if used concomitantly for long periods.
<b>Notes</b>	100mL of fluconazole contains 15mmol of sodium

<b>References</b>	<p>Society of Hospital Pharmacists of Australia. Fluconazole. In: Australian Injectable Drugs Handbook [Internet]. [St Leonards, New South Wales]: Health Communication Network; 2019 [cited 2019 August 12]. Available from: <a href="http://aidh.hcn.com.au">http://aidh.hcn.com.au</a></p> <p>Lilley L, Legge D. Paediatric injectable guidelines. 5th ed. Melbourne (Victoria): The Royal Children's Hospital; 2019. 90</p> <p>Truven Health Analytics. Fluconazole. In: NeoFax [Internet]. Greenwood Village (CO): Truven Health Analytics; 2019 [cited 2019 August 12]. Available from: <a href="https://neofax.micromedexsolutions.com/">https://neofax.micromedexsolutions.com/</a>Clinical pharmacology</p> <p>Takemoto CK, Hodding JH, Kraus DM. Pediatric &amp; neonatal dosage handbook with international trade names index : a universal resource for clinicians treating pediatric and neonatal patients. 24th ed. Hudson (Ohio): Lexicomp; 2401. 2, p851.</p> <p>Australian Medicines Handbook. Fluconazole. In: Australian Medicines Handbook [Internet]. Adelaide (South Australia): Australian Medicines Handbook; 2019 [cited 2019 August 14]. Available from: <a href="https://amhonline.amh.net.au/">https://amhonline.amh.net.au/</a></p> <p>MIMS Australia. Fluconazole. In: MIMS Online [Internet]. St Leonards (New South Wales): MIMS Australia; 2019 [cited 2019 August 14]. Available from: <a href="https://www.mimsonline.com.au">https://www.mimsonline.com.au</a></p>
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