

# FLUCLOXACILLIN

<b>Trade Name</b>	Flucloxin injection (Douglas Pharmaceuticals) Flucloxacillin suspension																						
<b>Class</b>	Antibacterial																						
<b>Mechanism of Action</b>	Inhibits bacterial cell wall synthesis																						
<b>Indications</b>	<p>Penicillinase-producing Staphylococcal infections.</p> <p>Common presentation in neonates – peri-umbilical flare, pustules in neck, armpit creases, paronychia. Occasionally scalded skin syndrome occurs.</p>																						
<b>Contraindications</b>	Known hypersensitivity.																						
<b>Supplied As</b>	<p><b>IV:</b> 500mg vial</p> <p><b>Oral:</b> 125mg/5mL powder for reconstitution</p>																						
<b>Dilution</b>	<p><b>IV:</b> Standard dilution</p> <table border="1"> <thead> <tr> <th>Vial</th> <th>Water Added</th> <th>Final Volume</th> <th>Concentration</th> </tr> </thead> <tbody> <tr> <td>500mg</td> <td>4.6mL*</td> <td>5mL</td> <td>100mg/mL</td> </tr> </tbody> </table> <p><b>IV:</b> If wanting further dilution due to vein irritation</p> <table border="1"> <thead> <tr> <th>Vial</th> <th>Water Added</th> <th>Final Volume</th> <th>Concentration</th> </tr> </thead> <tbody> <tr> <td>500mg</td> <td>9.6mL*</td> <td>10mL</td> <td>50mg/mL</td> </tr> </tbody> </table> <p>*500mg of flucloxacillin sodium powder displaces 0.4mL of diluent.</p> <p><b>If the dose volume is &lt;0.5mL then will need to further dilute before infusing via the T34 pump (see T34 protocol)</b></p> <p><b>Oral:</b></p> <table border="1"> <thead> <tr> <th>Water Added</th> <th>Concentration</th> </tr> </thead> <tbody> <tr> <td>See instructions on the bottle as different brands vary</td> <td>125mg/5mL</td> </tr> </tbody> </table>			Vial	Water Added	Final Volume	Concentration	500mg	4.6mL*	5mL	100mg/mL	Vial	Water Added	Final Volume	Concentration	500mg	9.6mL*	10mL	50mg/mL	Water Added	Concentration	See instructions on the bottle as different brands vary	125mg/5mL
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<b>Dosage</b>	<p><b>IV:</b> 50 mg/kg/dose but may be increased to 100mg/kg/dose</p> <p><b>Oral:</b> 25 mg/kg/dose</p> <p><b>Maximum dose:</b> 200mg /kg /day</p>																						
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<b>Administration</b>	<p><b>Oral</b></p> <p><b>IV</b> slow push or infusion over 30 minutes if concerns regarding high doses or vein irritation</p> <p><b>IM</b> – avoid if possible as very painful</p>
<b>Compatible With</b>	<p><b>Solution:</b> Dextrose 5% and 10%, sodium chloride 0.9%</p> <p><b>Terminal Y-site:</b> Adrenaline, aminophylline, ampicillin, ceftazidime, cefuroxime, dexamethasone, digoxin, heparin, hydrocortisone, lidocaine, metronidazole, piperacillin, potassium chloride, ranitidine, sodium bicarbonate,</p>
<b>Incompatible With</b>	Amikacin, calcium gluconate, clarithromycin, dobutamine, erythromycin, gentamicin, lipid solution, midazolam, morphine, pethidine, tobramycin, vancomycin, blood products
<b>Monitoring</b>	Periodic FBC and urinalysis
<b>Stability</b>	<p><b>IV:</b> Discard remaining solution in vial after reconstitution Use a new vial for each dose Vials are not designed for multidosing</p> <p><b>Oral:</b> Reconstituted; 14 days</p>
<b>Storage</b>	<p>Powder- room temperature</p> <p>Oral syrup- refrigerate (2-8° C), protect from light.</p>
<b>Adverse Reactions</b>	Transient diarrhoea with oral. Skin rash (discontinue treatment) Nephritis. Bone marrow depression. Prolonged use may cause cholestatic hepatitis.
<b>Metabolism</b>	Excreted unchanged via the kidneys. Poor CSF penetration. Good penetration into pleural, pericardial and synovial fluids.
<b>Comments</b>	<p>Oral flucloxacillin has an unpleasant taste – warn parents.</p> <p>Oral flucloxacillin is best absorbed on an empty stomach. Give before a feed if possible.</p> <p>Each 500mg of IV flucloxacillin vial contains 1.1mmol of sodium.</p> <p>Flucloxacillin may decrease albumin's binding of bilirubin by 30-50%. Use with caution in infants with jaundice.</p>
<b>References</b>	<ol style="list-style-type: none"> <li>1. Medicines for Children (1999)</li> <li>2. Flucloxin product insert</li> <li>3. NZHPA Notes on Injectable Drugs 6<sup>th</sup> edition. 2010</li> <li>4. Trissels Handbook on Injectable Drugs 10<sup>th</sup> Edition.</li> <li>5. <a href="http://www.medsafe.govt.nz">www.medsafe.govt.nz</a></li> <li>6. <a href="http://www.micromedexsolutions.com">www.micromedexsolutions.com</a></li> <li>7. <a href="http://www.amnfonline.org">www.amnfonline.org</a></li> </ol>

<b>Updated By</b>	Amanda Turnbull,	Nov 2001
	P Schmidt, B Robertshawe	June 2005
	A Lynn, B Robertshawe	Feb 2009
	A Lynn, B Robertshawe, F Robertson	May 2009 (new pumps)
	A Lynn, B Robertshawe	September 2009
	A Lynn, B Robertshawe	Oct 2012 (re-order profile), Aug 2013 oral Oct 2013 alter oral dilution instructions
	A Lynn, M Wallenstein, B Robertshawe	Jan 2021 (review/update)