

NEONATAL Medication Monograph

FLUCLOXACILLIN

This document should be read in conjunction with this **DISCLAIMER**

Unrestricted: Any prescriber may initiate treatment

Presentation	Vial: 500mg, 1000mg					
	Oral Suspension: 250mg/5mL					
Description	Narrow spectrum penicillin antibacterial					
	Flucloxacillin is stable against beta-lactamase producing staphylococci					
Indications	Treatment of infections caused by Staphylococcus aureus					
Contraindications	Hypersensitivity to penicillins					
Precautions	Caution in patients with hepatic impairment					
Dosage	<u>IV, IM:</u>					
	Postnatal age (days)	Dose	Dosing interval			
	0 – 7 days	50mg/kg/dose	12 hourly			
	8 – 20 days	50mg/kg/dose	8 hourly			
	≥ 21 days	50mg/kg/dose	6 hourly			
	Doses up to 100mg/kg/dose in staphylococcal osteomyelitis, meningitis or cerebral abscess <u>Oral:</u>					
	Postnatal age (days)	Dose	Dosing interval			
	0 – 7 days	25mg/kg/dose	12 hourly			
	8 – 20 days	25mg/kg/dose	8 hourly			
	≥ 21 days	25mg/kg/dose	6 hourly			
Dosage Adjustment	Dose range may be adju	usted according to sev	erity of infection			

Adverse Reactions Interactions Compatible	Common: Diarrhoea, pain and inflammation at injection site, transient increases in liver enzymes and bilirubinSerious: Black tongue, electrolyte disturbances, neurotoxicity, bleeding, blood dyscrasias, hepatic reactions, including severe cholestatic hepatitis (especially in treatment >2 weeks).Aminoglycosides, including gentamicin, should not be mixed with flucloxacillin when both drugs are given parenterally as inactivation occurs. Ensure line is adequately flushed between antibiotics.Glucose 5%, Sodium Chloride 0.9%			
Fluids				
Preparation	IV: Step 1: Reconstitution 500mg vial Add 4.6mL of Water for Injection to 500mg vial			
	Concentration = 100mg/mL 1000mg vial Add 9.3mL of Water for Injection to 1000mg vial Concentration = 100mg/mL			
	Step 2: Dilution Take 5mL (500mg) of the above solution and make to a final volume of 10mL Concentration = 500mg/10mL = 50mg/mL			
	IM:500mg vialAdd 2.1mL of Water for Injection to 500mg vial Concentration = 200mg/mL1000mg vialAdd 9.3mL of Water for Injection to 1000mg vial Concentration = 100mg/mL			
	Oral: Note: check brand before reconstituting mixture as instructions may differ Flucil Brand® Reconstitution Add 58mL of Water for Irrigation to powder and Shake Well			

Administration	IV Infusion (preferred): Infuse over 30-60 minutes			
	IV Injection: May be given as an IV injection over 3-5 minutes however infusion is preferred due to increased risk of phlebitis and pain			
	IM: Inject slowly into a large muscle such as the gluteus or lateral thigh If administering a volume greater than 1mL , administer over 2 different sites to minimise pain			
	<u>Oral:</u> Give 30 minutes before feeds to improve absorption			
Monitoring	Electrolytes, Observe intravenous site for extravasations Liver function tests if on long term therapy (>14 days)			
Storage	 Vial: Store at room temperature, below 25°C Oral Powder: Store at room temperature, below 25°C Once reconstituted: Refrigerate at 2 to 8°C and discard after 14 days 			
Notes	1g of flucloxacillin sodium contains 2.2mmol of sodium ions There have been reports of severe, delayed cholestatic jaundice in adults particularly after treatment for more than 2 weeks. While this has not been recognised with neonatal use, caution would be recommended in this population.			
References	Society of Hospital Pharmacists of Australia. Flucloxacillin. In: Australian Injectable Drugs Handbook [Internet]. [St Leonards, New South Wales]: Health Communication Network; 2019 [cited 2020 Ja 21]. Available from: <u>http://aidh.hcn.com.au</u>			
	Ainsworth SB. Neonatal formulary 7: drug use in pregnancy and the first year of life. Seventh ed. Chichester (West Sussex): John Wiley & Sons Inc.; 2015. p217.			
	Flucloxacillin. In British national formulary for children Joint Formulary Committee (September 2018-19) <i>BNF 74: September</i> <i>2018-19</i> . London: Pharmaceutical Press			
	Flucloxacillin In: South Australian Neonatal Medication Guidelines 2018[cited 2020 Feb 6]			
Related policies	WNHS Policy: Antimicrobial Stewardship			

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