## Flucloxacillin

Newborn use only

Alert	S4 High risk medicine.			
	Antimicrobial Stewardship Team li			
Indication		ction by Staphylococcus aureus or susceptible coagulase-negativ		
Action	Staphylococci (CoNS) is suspected or confirmed, and other infections caused by suscept			
Action	Bactericidal agent that works by inhibiting the biosynthesis of cell wall mucopeptides. Flucloxacillin is stable against beta-lactamase producing Staphylococci.			
Drug type	Penicillin antibiotic.			
Trade name		hydrate for injection (DBL), Flubiclox		
Presentation		g/5 mL suspension, 250 mg/5 mL suspension.		
Dose/interval		IV, IM or Intraosseous: 25 mg/kg/dose every 4 hours		
	Recommended for infants with moderate to severe infection, with Staphylococcus aureus ar susceptible coagulase negative staphylococcus infections:[1] Alternate dosing regimen: 50 mg/kg/dose			
	Day of life	Dosing interval		
	Days 0–7	12 hourly		
	Days 8–20	8 hourly		
	Day 21+	6 hourly		
	Oral: 25 mg/kg/dose			
	Day of life	Dosing interval		
	Days 0–7	12 hourly		
	Days 8–20	8 hourly		
	Day 21 +	6 hourly		
Dose adjustment	Therapeutic hypothermia: No info			
•	ECMO: May need increased dosing			
	Renal impairment: Use with caution	on.		
	Hepatic impairment: Use with caution.			
Maximum dose	200 mg/kg/day			
Total cumulative				
dose				
Route	IV			
	IM (only if IV route not possible as	s intramuscular route is painful).		
	Intraosseous Oral			
Prenaration	IV and Intraosseous			
Preparation				
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Administration	Nu lafuse over 20 to 60 minutes. May be given as an Winisction over 2. 5 minutes, however rais and
Administration	<b>IV:</b> Infuse over 30 to 60 minutes. May be given as an IV injection over 3–5 minutes, however pain and
	phlebitis are common and can be severe. [4]
	IM: Inject slowly into a large muscle .If administering a volume greater than 1mL, divide the dose and
	administer at 2 different injection sites to minimise pain.
	<b>Oral:</b> Give 30 to 60 minutes before feeds. Shake the bottle well before measuring dose. Usually
	reconstituted by Pharmacy. If supplied unreconstituted, reconstitute powder for oral suspension using
	water for injection with the volume specified on the bottle.
Monitoring	Liver function tests if using high dose/long course or in existing hepatic impairment.
	Renal function as the drug is mainly renally excreted.
Contraindications	History of flucloxacillin associated jaundice or hepatic dysfunction.
	History of a hypersensitivity reaction to beta-lactam antibiotics e.g., penicillins.
Precautions	Use with caution in renal or hepatic impairment. Consider dosage adjustment in renal impairment.
	Use with caution in jaundiced or preterm infants as flucloxacillin can displace bilirubin from albumin.
	IM injection can cause pain and irritation – obtaining IV access as soon as possible is recommended.
Drug interactions	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.
Adverse reactions	Transient diarrhoea – common with oral doses.
	Hypersensitivity (rare) – urticaria, fever, bronchospasm, anaphylaxis, eosinophilia.
	Phlebitis (much rarer than with dicloxacillin) – monitor injection site.
	Hepatitis and cholestatic jaundice (may occur up to several weeks after stopping), isolated cases of
	nephritis.
Compatibility	Fluids: Glucose 5%, sodium chloride 0.9%. lidocaine (lignocaine) 0.5% or 1%
	Y-site: Adrenaline (epinephrine), aminophylline, ampicillin, dexamethasone sodium phosphate,
	digoxin, heparin, hydrocortisone sodium succinate, potassium chloride, ranitidine, sodium bicarbonate.
Incompatibility	Fluids: Amino acid solutions and lipid emulsions.
	Y-site: Aminoglycosides (e.g., gentamicin), amiodarone, atropine sulfate monohydrate,
	benzylpenicillin, calcium gluconate monohydrate, ciprofloxacin, dobutamine, erythromycin,
	metoclopramide, midazolam, morphine sulfate, vancomycin.
Stability	Use immediately following reconstitution.
	Vial is for single use only.
	Reconstituted oral suspension should be discarded after 14 days.
Storage	Vial: Store below 25°C.
	Oral suspension: Store powder below 25°C, once reconstituted store solution at 2–8°C
Excipients	
Special comments	Powder displacement values of 500 mg and 1 g vials are 0.4 mL and 0.7 mL respectively. [5]
	IM administration will result in delayed peak serum concentrations compared with administration via
	Intravenous or Intraosseous route
Evidence	Refer to full version.
Practice points	Refer to full version.
References	Refer to full version.

VERSION/NUMBER	DATE
Original	05/12/2015
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