Flucloxacillin

Newborn use only

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|-----------------------|--|--|--|--|
| Alert | S4 High risk medicine. Antimicrobial Stewardship Team listed this drug as unrestricted. | | | |
| | | | | |
| Indication | Treatment of sepsis where infection by Staphylococcus aureus or susceptible coagulase-negative Staphylococci (CoNS) is suspected or confirmed, and other infections caused by susceptible organisms. | | | |
| 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 | | nydrate for injection (DBL), Flubiclox | | |
| Presentation | | 500 mg vial, 1000 mg vial, 125 mg/5 mL suspension, 250 mg/5 mL suspension. | | |
| Dose/interval | IV, IM or Intraosseous: 25 mg/kg/dose every 4 hours | | | |
| | | s with moderate to severe infection, with Staphylococcus aureus and | | |
| | susceptible coagulase neg | gative 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 | | | |
| | Hepatic impairment: Use with caut | tion. | | |
| Maximum dose | 200 mg/kg/day | | | |
| Total cumulative dose | | | | |
| Route | IV | | | |
| noute | IM (only if IV route not possible as intramuscular route is painful). | | | |
| | Intraosseous Oral | | | |
| | | | | |
| Preparation | IV and Intraosseous | | | |
| | 500mg vial | | | |
| | | to the 500 mg vial to make 100 mg/mL solution | | |
| | FURTHER DILUTE Draw up 5 mL (500 mg of flucloxacillin) of the above solution and add 5 mL sodium chloride 0.9% to make a final volume of 10mL with a final concentration of 50 mg/mL. [3] 1g vial Add 4.3 mL of water for injection to the 1 g vial to make 200 mg/mL solution. | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | FURTHER DILUTE | | | |
| | | acillin) of the above solution and add 7.5 mL sodium chloride 0.9% to | | |
| | | a final concentration of 50 mg/mL. [3] | | |
| | IM | | | |
| | _ | for injection, or lidocaine (lignocaine) 1% to 500mg vial to make a 250 | | |
| | mg/mL solution [3 | | | |
| | 1000 mg vial: Add 3.3 mL of water for injection, or lidocaine (lignocaine) 1% to the 1000 mg vial to | | | |
| | make a 250 mg/mL solution. [3] | | | |
| | | | | |

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| | NOTE: DO NOT ADMINISTER LIDOCAINE (LIGNOCAINE) CONTAINING SOLUTIONS INTRAVENOUSLY | |
|--------------------|---|--|
| Administration | IV: Infuse over 30 to 60 minutes. May be given as an IV injection over 3–5 minutes, however pain and | |
| Aummistration | 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. | |
| | | |
| | Oral: 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 | |
| Monitorina | water for injection with the volume specified on the bottle. | |
| Monitoring | | |
| Combusiu disabiana | 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 |
|------------------|------------|
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