



REGIONAL PEDIATRIC PARENTERAL DRUG MONOGRAPH

GENERIC NAME
cefotaxime

Effective Date: Sept10-2014

Revised Date: Jan 12 2022

CLASSIFICATION
Antibiotic

OTHER NAMES
Claforan

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ADMINISTRATION POLICY:

- IV bolus - May be administered by a nurse
- IV Infusion – May be administered by a nurse **MINI-BAG PLUS COMPATIBLE**
- IM Injection – May be administered by a nurse
- Subcut - Not recommended

RECONSTITUTION/DILUTION/ADMINISTRATION:

Available as: 1000 mg vial

Reconstitution:
 IV: Add 9.6 mL unpreserved sterile water for injection. Shake until drug is dissolved.
 Final volume: 10 mL Final concentration: 100 mg/mL
 IM: Add 3.6 mL unpreserved sterile water for injection. Shake until drug is dissolved.
 Final volume: 4 mL Final concentration: 250 mg/mL

IV Bolus: Dilute to 100 mg/mL (preferred) and administer over 3 to 5 minutes

Intermittent: **MINI-BAG PLUS COMPATIBLE**
 Dilute in normal saline and infuse over 15 to 30 minutes

IM: Administer deep into a large muscle mass

DOSAGE:

Neonates:

Post Natal Age (weight)	Less than 1200 grams	1200 to 2000 grams	Greater than 2000 grams
Less than 7 days	100 mg per kg per 24 hours divided every 12 hours	100 mg per kg per 24 hours divided every 12 hours	100 to 150 mg per kg per 24 hours divided every 12 hours
Greater than or equal to 7 days		150 mg per kg per 24 hours divided every 8 hours	150 to 200 mg per kg per 24 hours divided every 6-8 hours

Children 1 month to 12 years: 100 to 200 mg per kg per 24 hours divided every 6 hours (maximum 8 grams in 24 hours)

Meningitis: 300 mg per kg per 24 hours divided every 6 hours (maximum 12 grams in 24 hours)

Renal Impairment: dosage adjustment required:
 CrCl less than 50 mL per minute per 1.73 m², reduce dose or frequency as required

Hepatic Impairment: no dosage adjustment required

Obesity: use ideal body weight (IBW) OR adjusted body weight (AdBW = IBW + 0.3 (actual BW – IBW))



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Maximum concentration:

IV: 150 mg/mL
IM: 330 mg/mL

- **DIRECT:** Dilute to 100 mg/mL (preferred) and administer over 3-5 minutes
- **INTERMITTENT:** Dilute in convenient volume of compatible IV solution, and infuse over 15-30 minutes
- **CENTRAL, UAC:** No specific considerations. Refer to DIRECT or INTERMITTENT
- **INTRAMUSCULAR:** Inject deep into a large muscle mass only (painful)

STABILITY/COMPATIBILITY:

Stability of Final Admixture: 12 hours at room temperature / 24 hours at refrigerated temperature

Compatibility: Compatible with normal saline, D5W, ½ normal saline, Lactated Ringer, D5W1/2NS

POTENTIAL HAZARDS:

- Hypersensitivity: maculopapular or erythematous rash, exfoliative dermatitis, pruritis, eosinophilia, fever, anaphylaxis (rare)
- GI: nausea, vomiting, diarrhea
- Hemat: mild reversible leucopenia, granulocytopenia and thrombocytopenia
- Hepatic: transient elevations in liver function tests
- Neuro: headache, lethargy, dizziness
- Renal: transient rise in urea and serum creatinine
- Local: phlebitis at IV site; pain at IM site

CAUTION

- adjust dose in patients with renal impairment

CONTRAINDICATIONS

- allergic reactions to cephalosporin antibiotic

ADDITIONAL NOTES: