CeFAZolin

Newborn use only

Alert	High r	isk medicine. The Antin	nicrobial Stewards	hip Team recommends th	nis drug is listed under the		
	following category: Unrestricted.						
	Contains 48 mg of sodium per gram of cefazolin sodium.						
Indication	Treatment of infections caused by susceptible organisms: • Gram positive bacteria Streptococci and Staphylococci including beta-lactamase producing						
	Staphylococci Gram negative bacteria <i>Escherichia coli</i> and some <i>Klebsiella</i> specie, provided these are reported						
	susceptible to cefazolin).						
Action	Bactericidal. Inhibits bacterial cell wall synthesis of actively dividing cells by binding to one or more						
Drug type	penicillin binding proteins. Antibiotic, First generation cephalosporin.						
Drug type Trade name	Cefazolin Sandoz, Cefazolin-AFT, Hospira Cefazolin, Kefzol, Cephazolin Alphapharm						
Presentation		1 g vial.					
Dose	I g via		1				
Dose		Postnatal age	Weight (g)	Dose	Interval		
		< 8 days	< 2000	25 mg/kg/dose	12 hourly		
		7 -	≥ 2000	50 mg/kg/dose	12 hourly		
		≥ 8 days	< 2000	25 mg/kg/dose	8 hourly		
		·	≥ 2000	50 mg/kg/dose	8 hourly		
Dose adjustment							
Maximum dose							
Total cumulative							
dose Route	IV infusion (preferable)						
Route	IV hill						
	IM						
Preparation		V Infusion					
•	Add 9.5 mL water for injection to the 1 g vial to make 100 mg/mL solution FURTHER DILUTE						
		Draw up 5 mL (500 mg of cefazolin) and add 15 mL of sodium chloride 0.9% to make a final volume of 20					
	mL with a final concentration of 25 mg/mL. IV bolus: Add 9.5 mL water for injection to the 1 g vial to make a 100 mg/mL solution.						
Administration	 IM: Add 2.5 mL water for injection to the 1 g vial to make a 330 mg/mL solution. IV infusion: Infuse over 30 minutes (10-60 minutes). IV bolus: Slow injection over 5 minutes. 						
Administration							
	IM: Inject deep into large muscle mass.						
Monitoring	_	concentrations are no		red.			
			•	ıring prolonged (> 10 day	s) therapy		
Contraindications				s to penicillin or carbape			
Precautions		_		ntains 48.3 mg (2.1 mmo	l) sodium.		
	May ir	ncrease risk of bleeding	g due to its effect o	n clotting factors.			
			sider reducing dos	e as seizures may occur if	inappropriately high doses are		
		istered.					
Drug interactions	-				ase risk of nephrotoxicity.		
Adverse		·		-	eudomembranous colitis,		
reactions					e Coombs test, eosinophilia,		
	leukopenia, neutropenia, thrombocytopenia, thrombocytosis, blood coagulation disorder, ra						
Compatibility	enzymes, candidiasis, raised urea, creatinine and renal failure.						
Compatibility	Fluids: Glucose 5%, glucose 10%, glucose in sodium chloride solutions, Hartmann's, sodium chloride 0.9%, water for injections.				artinami s, soulum cillonue		
	0.570,	water for injections.					
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	Y-site: Aciclovir, amifostine, anidulafungin, atracurium, aztreonam, bivalirudin, dexmedetomidine,			
	esmolol, filgrastim, fluconazole, foscarnet, granisetron, heparin sodium, linezolid, magnesium sulfate,			
	midazolam, morphine sulfate, palonosetron, pancuronium, pethidine, remifentanil, vecuronium.			
Incompatibility	Fluids: No information			
	Drugs: Aminoglycosides – amikacin, gentamicin, tobramycin; ascorbic acid, azathioprine, calcium			
	chloride, caspofungin, chlorpromazine, dobutamine, dolasetron, dopamine, erythromycin, ganciclovir,			
	haloperidol lactate, hydralazine, mycophenolate mofetil, pentamidine, promethazine, rocuronium.			
Stability	Stable for 24 hours below 25°C. However store at 2 to 8°C and use as soon as possible. Crystals may form			
	if the solution is refrigerated. Redissolve by shaking the vial and warming in the hands.			
Storage	Store below 25°C. Protect from light.			
Excipients				
Special	Poor penetration into cerebrospinal fluid therefore not suitable for infections of the CNS.			
comments	Renally excreted as unchanged drug. Not metabolised.			
	Half-life in neonates is 3 to 5 hours.			
	Cefazolin is highly bound to serum albumin –only the unbound cefazolin is pharmacologically active.			
	Water for injection is the preferred diluent. Crystals may form when cefazolin is reconstituted with			
	sodium chloride 0.9% to a concentration of 330 mg/mL. The crystals formed are small and may be			
	overlooked. Redissolve by warming the vial in hands until the solution is clear.			
Evidence	The dosing regimen adopted by the consensus group is based on a neonatal pharmacokinetic model			
27.0000	taking into account total and unbound cefazolin concentrations with saturable plasma protein binding. 6			
	A prospective validation of this dosing regimen is needed.			
Practice points	The separate familiaries of the desired regiments received.			
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