CefTAZidime Newborn use only

Alert	High risk medicine. The A	ntimicrobial Stewardship Tea	m recommends thi	s drug is listed	under the	
	following category: Restricted.					
Indication	Treatment of meningitis and sepsis caused by susceptible gram-negative organisms (especially					
) and susceptible gram-positi				
Action		inhibits cell wall synthesis in s	usceptible bacteria	Э.		
Drug type	Cephalosporin antibiotic.					
Trade name	Ceftazidime Alphapharm, Ceftazidime.	Ceftazidime Aspen, Ceftazidi	me Juno Ceftazidin	ne Sandoz, Fort	tum, Hospira	
Presentation	1 g and 2 g vial					
Dose	50 mg/kg/dose					
		onal Age/Postmenstrual Age	Postnatal Age	Interval		
	< 30 ⁺⁰ weeks		0–28 days	12 hourly		
	< 30 ⁺⁰ weeks		29+ days	8 hourly		
	30 ⁺⁰ –36 ⁺⁶ weeks		0–14 days	12 hourly		
	30 ⁺⁰ –36 ⁺⁶ weeks		15+ days	8 hourly		
	37 ⁺⁰ –44 ⁺⁶ weeks		0–7 days	12 hourly		
	37 ⁺⁰ -44 ⁺⁶ weeks		8+ days	8 hourly		
	≥ 45 weeks		0+ days	8 hourly		
Dose adjustment	Renal impairment: Consid	ler increasing dosage interval	in those with signi	ficant renal imp	pairment.	
Maximum dose	150mg/kg/day					
Total cumulative						
dose						
Devite						
Route Preparation	-	vater for injection to the 1 g vi		-		
	 IV bolus 1 g vial: Add 8.9 mL of w 2 g vial: Add 8.2 mL of w entire contents of the vi concentration of 100 mg IV Infusion Add 8.9 mL water for inj for injection to the 2g vi FURTHER DILUTE From the 1 g vial Draw u make a final volume of 2 From the 2 g vial draw u to make a final volume of 2 IM injection 	vater for injection to the 2 g vi ial and add water for injection g/mL. iection to the 1 g vial to make al to make 200 mg/mL. up 3 mL (300 mg of ceftazidim L5 mL with a final concentration of 15mL with a final concentration of 15mL with a final concentration	al to make a 200m to make a final vo 100 mg/mL solutio e) and add 12 mL o on of 20 mg/mL. ne) and add 13.5m tion of 20 mg/mL.	g/mL solution. Jume of 20 mL on OR Add 8.2 r of sodium chlor L of sodium chl	Draw up the with a final mL of water ide 0.9% to oride 0.9%	
Preparation	 IV bolus 1 g vial: Add 8.9 mL of w 2 g vial: Add 8.2 mL of w entire contents of the vi concentration of 100 mg <u>IV Infusion</u> Add 8.9 mL water for inj for injection to the 2g vi FURTHER DILUTE From the 1 g vial Draw u make a final volume of 2 From the 2 g vial draw u to make a final volume of 2 IM injection Add 3 mL water for injection 	vater for injection to the 2 g vi ial and add water for injection g/mL. iection to the 1 g vial to make al to make 200 mg/mL. up 3 mL (300 mg of ceftazidim L5 mL with a final concentration of 15mL (300mg of Ceftazidin of 15mL with a final concentration of 15mL with a final concentration	al to make a 200m to make a final vo 100 mg/mL solutio e) and add 12 mL o on of 20 mg/mL. ne) and add 13.5m tion of 20 mg/mL.	g/mL solution. Jume of 20 mL on OR Add 8.2 r of sodium chlor L of sodium chl	Draw up the with a final mL of water ide 0.9% to oride 0.9%	
Preparation	 IV bolus g vial: Add 8.9 mL of w g vial: Add 8.2 mL of w g vial: Add 8.2 mL of w entire contents of the vi concentration of 100 mg <u>IV Infusion</u> Add 8.9 mL water for inj for injection to the 2g vi FURTHER DILUTE From the 1 g vial Draw u make a final volume of 2 From the 2 g vial draw u to make a final volume of 2 IM injection Add 3 mL water for injection: give over at 	vater for injection to the 2 g vi ial and add water for injection g/mL. iection to the 1 g vial to make al to make 200 mg/mL. up 3 mL (300 mg of ceftazidim 15 mL with a final concentration p 1.5mL (300mg of Ceftazidim of 15mL with a final concentration of 15mL with a final concentration	al to make a 200m to make a final vo 100 mg/mL solutio e) and add 12 mL o on of 20 mg/mL. ne) and add 13.5m tion of 20 mg/mL.	g/mL solution. Jume of 20 mL on OR Add 8.2 r of sodium chlor L of sodium chl	Draw up the with a final mL of water ide 0.9% to oride 0.9%	
Preparation	 IV bolus 1 g vial: Add 8.9 mL of w 2 g vial: Add 8.2 mL of w entire contents of the vi concentration of 100 mg IV Infusion Add 8.9 mL water for inj for injection to the 2g vi FURTHER DILUTE From the 1 g vial Draw u make a final volume of 2 From the 2 g vial draw u to make a final volume of 2 IM injection Add 3 mL water for injection IV injection: give over at 1 IV infusion: over 15–30 m 	vater for injection to the 2 g vi ial and add water for injection g/mL. iection to the 1 g vial to make al to make 200 mg/mL. up 3 mL (300 mg of ceftazidim 15 mL with a final concentration of 15mL (300mg of Ceftazidin of 15mL with a final concentration of 15mL with a final concentration of 15mL with a final concentration of 15mL with a final concentration of 15mL with a final concentration of 15mL with a final concentration of 15mL	al to make a 200m to make a final vo 100 mg/mL solutio e) and add 12 mL o on of 20 mg/mL. ne) and add 13.5m tion of 20 mg/mL.	g/mL solution. Jume of 20 mL on OR Add 8.2 r of sodium chlor L of sodium chl ke a 260 mg/ml	Draw up the with a final mL of water ide 0.9% to oride 0.9% L solution.	
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Route Preparation Administration Monitoring Contraindications Precautions Drug interactions Adverse reactions	 IV bolus g vial: Add 8.9 mL of w g vial: Add 8.2 mL of w g vial: Add 8.2 mL of w entire contents of the vi concentration of 100 mg IV Infusion Add 8.9 mL water for inj for injection to the 2g vi FURTHER DILUTE From the 1 g vial Draw u make a final volume of 2 From the 2 g vial draw u to make a final volume of 2 IM injection Add 3 mL water for inject IV injection: give over at IV injection: not recomm Renal function, liver function Hypersensitivity to penicition Sodium restriction (each get a final volume of a final v	vater for injection to the 2 g vi ial and add water for injection g/mL. iection to the 1 g vial to make al to make 200 mg/mL. up 3 mL (300 mg of ceftazidim L5 mL with a final concentration p 1.5mL (300mg of Ceftazidim of 15mL with a final concentration of 15mL with a final concentration is to 5 minutes. hinutes hended. If IM administration is tion. llins or cephalosporins. gram contains 52 mg [2.3 mm oses with nephrotoxic drugs m	al to make a 200m to make a final vo 100 mg/mL solutio e) and add 12 mL o on of 20 mg/mL. ne) and add 13.5m ition of 20 mg/mL. constitution to mal	g/mL solution. Jume of 20 mL on OR Add 8.2 r of sodium chlor L of sodium chl ke a 260 mg/ml	Draw up the with a final mL of water ide 0.9% to oride 0.9% L solution.	
Preparation Administration Monitoring Contraindications Precautions Drug interactions Adverse	 IV bolus g vial: Add 8.9 mL of w g vial: Add 8.2 mL of w g vial: Add 8.2 mL of w entire contents of the vi concentration of 100 mg IV Infusion Add 8.9 mL water for inj for injection to the 2g vi FURTHER DILUTE From the 1 g vial Draw u make a final volume of 2 From the 2 g vial draw u to make a final volume of 2 IM injection Add 3 mL water for injection: give over at a final volume of 15–30 m IM injection: not recomm Renal function, liver function Hypersensitivity to penici Sodium restriction (each geotometric) Rash, Diarrhoea, Elevated Eosinophillia, thrombocyte 	vater for injection to the 2 g vi ial and add water for injection g/mL. iection to the 1 g vial to make al to make 200 mg/mL. up 3 mL (300 mg of ceftazidim L5 mL with a final concentration p 1.5mL (300mg of Ceftazidim of 15mL with a final concentration of 15mL with a final concentration is 15mL with a final concentration is 15mL with a final concentration of 15mL with a final concentration is 15mL	al to make a 200m to make a final vo 100 mg/mL solutio e) and add 12 mL o on of 20 mg/mL. ne) and add 13.5m ition of 20 mg/mL. constitution to mal	g/mL solution. Jume of 20 mL on OR Add 8.2 r of sodium chlor L of sodium chl ke a 260 mg/ml	Draw up the with a final mL of water ide 0.9% to oride 0.9% L solution.	

2022

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	Y-site: Amino acid solutions, aciclovir, anidulafungin, aztreonam, ciprofloxacin, dexmedetomidine, esmolol,			
	ibuprofen lysine, ketamine, labetalol, linezolid, morphine sulfate, sodium valproate, tacrolimus, tigecycline,			
	tobramycin, zidovudine.			
Incompatibility	Fluids: Sodium bicarbonate.			
	Y-site: Acetylcysteine, aminoglycosides – amikacin, gentamicin, tobramycin; amiodarone, atracurium,			
	azathioprine, azithromycin, calcium chloride, caspofungin, chloramphenicol, chlorpromazine, dobutamine,			
	erythromycin, fluconazole, ganciclovir, hydralazine, midazolam, pentamidine, phenytoin, promethazine,			
	protamine, sodium ascorbate, sodium nitroprusside, vancomycin, verapamil.			
Stability	Reconstitution with water for injection: Solution stable for 12 hours below 25°C and 24 hours at 2 to 8°C.			
-	Reconstitution with lignocaine: Stable for 6 hours below 25°C and 24 hours at 2 to 8°C.			
Storage	Store vial below 25°C. Protect from light.			
Excipients	Sodium carbonate			
Special				
comments				
Evidence	To be updated.			
Practice points				
References	1. Hey E. (Ed) [2003]. Neonatal Formulary 4th Edition. BMJ Publishing Group, London.			
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	Health and Human Development Neonatal Research Network. The association of third-generation			
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