

Displacement values and reconstitution guidelines for common antibiotics in the Children's Hospital

Antibiotic (brand)	Reconstitution with water for injection	Concentration of reconstituted solution	Extra information
Aciclovir <i>All brands</i>	250mg – 10ml	25mg/ml	Must be diluted further with sodium chloride 0.9% to maximum concentration of 5mg/ml Infuse all doses over 60 minutes If whole vial use ecoflac device
Amoxicillin <i>Bowmed</i>	250mg - 4.8ml 500mg – 9.6ml	50mg/ml	Doses over 30mg/kg must be infused over 30 minutes May be diluted further with sodium chloride 0.9% if necessary If whole vial use ecoflac device
Benzypenicillin <i>Genus</i>	600mg - 5.6ml 1200mg - 11.2ml	100mg/ml	Must be diluted further to maximum concentration of 60mg/ml Neonates: Bolus all doses over 3-5 minutes Children: Doses of 25mg/kg bolus over 3-5 mins Doses of 50mg/kg to be infused over 30 mins If whole vial use ecoflac device

<p>Cefotaxime <i>Reig Jofre</i></p> <hr/> <p><i>Wockhardt, Lupin, Genus, CP, Claforan</i></p> <hr/> <p><i>Villerton</i></p>	<p>1000mg – 4.4ml 2000mg – 8.9ml</p> <hr/> <p>500mg – 2.3ml 1000mg – 4.5ml 2000mg – 8.2ml</p> <hr/> <p>500mg – 2.3ml 1000mg – 4.6ml</p>	<p>200mg/ml</p> <hr/> <p>200mg/ml</p> <hr/> <p>200mg/ml</p>	<p>Further dilution not required</p> <p>Doses <500mg by slow IV bolus over 3- 5 mins Doses >500mg by IV infusion over 30 mins</p> <p>If whole vial use ecoflac device</p>
<p>Cefuroxime <i>GlaxoSmithKline, Fresenius</i></p> <hr/> <p><i>Stravencon</i></p> <hr/> <p><i>Flynn Pharma</i></p>	<p>750mg - 7ml 1500mg - 14ml</p> <hr/> <p>750mg – 6.9ml 1500mg – 13.8ml</p> <hr/> <p>750mg – 7ml 1500mg – 13.9ml</p>	<p>100mg/ml</p> <hr/> <p>100mg/ml</p> <hr/> <p>100mg/ml</p>	<p>Further dilution not required.</p> <p>Administer as a slow IV bolus over 3-5 mins</p> <p>If whole vial use ecoflac device</p>

Ceftriaxone <i>Roche, Villerton</i>	1g – 9.2ml	100mg/ml	Must be diluted further with sodium chloride 0.9% to a maximum concentration of 50mg/ml Infuse all doses over 30 minutes If whole vial use ecoflac device
	2g – 18.4ml		
	<i>CP, Wockhardt</i>	1g – 9.5ml	
<i>Stravencon</i>	2g – 19ml	100mg/ml	
	1g – 9.4ml		
	2g – 18.8ml		
Co-amoxiclav <i>Glaxo, CP, Wockhardt</i>	600mg - 9.5ml	60mg/ml	Further dilution not required. A transient pink colouration may develop during reconstitution, the product is safe to use. Administer as a slow IV bolus over 3-5 minutes If whole vial use ecoflac device
	1200mg - 19.1ml		
Flucloxacillin <i>Wockhardt</i>	250mg - 4.8ml	50mg/ml	Administer as slow IV bolus over 3-5 minutes If whole vial use ecoflac device Precipitates with potassium solutions - flush with Sodium chloride 0.9%
	500mg – 9.6ml		
	1000mg - 19.3ml		
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<i>Bowmed</i>	250mg - 4.8ml	50mg/ml	
	500mg – 9.65ml		
	1000mg - 19.4ml		

Piperacillin & tazobactam			
<i>Wyeth, Sandoz, Fresenius</i>	2.25g – 8.4ml		Must be diluted further with sodium chloride 0.9% to a concentration between 15-90mg/ml
	4.5g – 16.9ml	225mg/ml	
<i>Hospira</i>	2.25g – 8.5ml		Infuse all doses over 30 minutes
	4.5g – 17ml	225mg/ml	
<i>Bowmed</i>	2.25g – 8.3ml		If whole vial use ecoflac device
	4.5g – 16.5ml	225mg/ml	
<i>Stragen</i>	2.25g – 8.3ml		
	4.5g – 16.6ml	225mg/ml	
<i>Pfizer, Wockhardt, Actavis</i>	2.25g – 8.4ml		
	4.5g – 16.8ml	225mg/ml	

**Not all antibiotics listed will be kept as stock on all wards
If an antibiotic is not listed please contact pharmacy for advice**