

Displacement values and reconstitution guidelines for common antibiotics Used on the Neonatal Intensive Care Unit Children's' reference: CH PH N 47 V2

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Version / Amendment	Version	Date	Author	Reason
History	1	November 2017 2010	Harriet Hughes, Pharmacist, Paediatrics	Original Guideline
	2	April 2022	Hester Davies, Susi Dumbleton and Harriet Hughes, Paediatric Pharmacists	Due update

Intended Recipients:

Medical and nursing staff on NICU

Training and Dissemination:

Cascaded through Paediatric Guideline Manual Holders

Published on Intranet,

Article in directorate newsletter

Email to Consultants, Senior Matrons and Departmental Matrons

Email to PICU matron

Distribution and Location of Guideline:

Within the manual entitled "Directorate of Children's Services

Clinical and Operational Policies and Guidelines." Located in all areas within the Children's Hospital

Pharmacy

Changes made from CH PH N 47 V1:

Cefuroxime removed as not listed as stock on the neonatal unit

Average displacement values used for Cefotaxime

Review of 'extra information' for each drug, with information added for reconstitution

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Antibiotic	Reconstitution	Concentration of reconstituted solution	Extra information
			Reconstitute in water for injections
			Doses <30mg/kg to be given slowly over at least 3 minutes
		250mg in 2.5ml	Doses over 30mg/kg must be infused over 30 minutes.
Amoxicillin	250mg – 2.3 ml WFI	(100mg/ml)	May be diluted further with sodium chloride 0.9% or glucose 5% with any
	2301116 210 1111 1111		convenient volume.
			Shake vigorously. A transient pink colour may develop during reconstitution but the product may still be used.
			Use reconstituted solution immediately.
			Reconstitute in water for injections.
Benzylpenicillin	600mg - 5.6ml WFI	600mg in 6ml	Doses <50mg/kg to be given slowly as an injection over 3-4 minutes.
		(100mg/ml)	Can be given as 100mg/mL injection or diluted further, where the maximum
			final concentration is 60mg/ml.
			Doses of ≥50mg/kg will be made by pharmacy with overage as they must be infused.
Cefotaxime			Reconstitute in water for injections
	500mg – 4.8ml WFI	500mg in 5ml	
		(100mg/ml)	IV Injection over at least 3 minutes
			Cefotaxime has a high osmolarity. When administering cefotaxime to neonates, dilute with glucose 5% or sodium chloride 0.9% to a concentration of 50mg in 1mL
			to reduce the risk of adverse effects.

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Flucloxacillin			Reconstitute in water for injections IV bolus – give doses <1000mg over at least 3 minutes.
	250mg - 4.8ml WFI	250mg in 5ml (50mg/ml)	The reconstituted dose may be given without further dilution, but preferably dilute with a further 5-10mL with sodium chloride 0.9%, glucose 5% or glucose 10% to aid slow administration and increase osmolarity of injection.

^{*}If an antibiotic is not listed please contact pharmacy for advice*

Documentation Control

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