

NEONATAL Medication Monograph

AMOXICILLIN (AMOXYCILLIN)

This document should be read in conjunction with this **DISCLAIMER**

Unrestricted: Any prescriber may initiate treatment

Presentation	Vial: 1g				
	Oral Suspension: 250mg/5mL (PCH)				
	100mg/mL (KEMH)				
Description	Moderate spectrum penicillin antibiotic.				
Indications	Directed treatment of infections caused by susceptible gram positive (including Streptococcus species, Enterococcus faecalis and Listeria monocytogenes) and susceptible gram negative bacteria.				
Contraindication	Known hypersensitivity to penicillins				
Precaution	In renal impairment, the excretion of amoxicillin will be delayed. In infants with severe renal impairment, it may be necessary to reduce the total daily dose. Contact Microbiology.				
Dosage	Infections due to susceptible organisms IV/IM/PO:				
	Corrected	Postnatal	Dose	Frequency	
	gestational	age			
	<u>age</u>				
	All ages	<7 days	50mg/kg/dose		
		≥7 days	50mg/kg/dose	Every 8 hours	
	Meningitis IV/IM:				
	Corrected	<u>Postnatal</u>	<u>Dose</u>	<u>Frequency</u>	
	gestational	<u>age</u>			
	<u>age</u>	<7 days	100mg/kg/dose	Every 12 hours	
	All ages	≥7 days	100mg/kg/dose	Every 8 hours	
		=1 days	100111g/Rg/d03E	Every o flours	

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Dosage Adjustment	In infants with severe renal impairment, it may be necessary to reduce the total daily dose. Contact Microbiology.			
Adverse	Common: Vomiting, diarrhoea, rash, hypersensitivity, angioedema			
Reactions	Serious: neurotoxicity (too rapid injection rate), urticaria, purpurae, anaemia, thrombocytopenia, phlebitis, hypernatraemia (from sodium content)			
Interactions	IV aminoglycoside antibiotics, including gentamicin, are inactivated by IV cephalosporins, penicillins and teicoplanin. Ensure lines are adequately flushed between antibiotics.			
	Incompatible with TPN solutions and Fat emulsion			
Compatible Fluids	Sodium chloride 0.9%, Sterile water for injection			
Preparation	<u>IV:</u>			
•	Add 9.2mL of water for injections to a 1g vial			
	Concentration is 1000mg/10mL			
	Take 5mL (500mg) of the above solution and add to 5mL of water for injections			
	Concentration is now 500mg/10mL = 50mg/mL			
	IM:			
	Add 3.2mL of water for injections to a 1g vial			
	Concentration is 1000mg/4mL = 250mg/mL			
	Oral (100 mg/mL drops)			
	Add 18mL of water for Irrigation to the amoxicillin powder for suspension. Shake well			
	Expires 14 days after reconstitution. Store at room temperature.			
	Oral (250 mg/5mL suspension)			
	Add 92mL of Water for Irrigation to the amoxicillin powder for suspension.			
	Expires 14 days after reconstitution. Refrigerate- do not freeze			

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Administration	stration <u>IV:</u>				
Administration	Infuse over at least 30 minutes.				
	<u>Oral</u> :				
	May be given at any time with regard to feeds.				
Monitoring	Monitoring is not usually required. Follow infectious disease/microbiology advice in case of poor therapeutic response				
Storage	<u>IV:</u>				
	Store at room temperature, below 25°C				
	PO:				
	100mg/mL solution - Store at room temperature, below 25°C . Stable for 14 days				
	250mg/mL solution – Refrigerate – do not freeze, stable for 14 days				
Notes	Clearance is primarily by the renal route. Clearance increases with increasing gestational age and postmenstrual age. Serum half-life is longer in premature infants and infants younger than 7 days				
Related clinical guidelines	WNHS Policy: Antimicrobial Stewardship				
Other clinical	NETS WA Seizures				
guidelines	NETS WA Sepsis				
References	Takemoto CK, Hodding JH, Kraus DM. Pediatric & neonatal dosage handbook with international trade names index: a universal resource for clinicians treating pediatric and neonatal patients. 23rd ed. Hudson (Ohio): Lexicomp; 2401. 2, P.128				
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For any enquiries relating to this guideline, please email $\underline{\textbf{KEMH.PharmacyAdmin@health.wa.gov.au}}$

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