PHENOXYMETHYLPENICILLIN

Trade Name	Phenoxymethylpenicillin Oral Solution (AFT Pharmaceuticals)
Class	Beta-lactam antibiotic
Mechanism of Action	Inhibits bacterial cell wall synthesis through interaction with penicillin-binding-proteins
Indications	Treatment of infection of sensitive organisms (most commonly Group B Strep).
Contraindications	Allergy to penicillins. Large doses may cause hypokalaemia and hypernatraemia
Supplied As	Powder for reconstitution to make 125mg/5mL oral solution (orange flavour)
Dilution	**Water Added**: See instructions on the bottle as different brands vary **Concentration**: **125 mg / 5mL**
Dosage	12.5 mg/kg/dose
Interval	Every six hours
Administration	Oral
Compatible With	N/A
Incompatible With	N/A
Interactions	No known interactions that preclude concomitant use. Give at a different time of day to Gaviscon
Monitoring	Urea, creatinine and electrolytes
Stability	Discard after 10 days
Storage	Powder – maintain at room temp; protect from light and moisture. Reconstituted solution –store in the fridge(2- 8 ^{o}C) Protect from light
Adverse Reactions	Anaphylaxis and both immediate and delayed hypersensitivity reactions. High doses can cause CNS toxicity and seizures.
Metabolism	Bioavailability = 60 – 70% Half life = 1-2 hrs in neonates (prolonged in renal impairment) Time to peak serum concentration = 30 – 60mins Renal excretion.
Comments	0.35mmol of potassium per 125mg of phenoxymethylpenicillin Each 5mL of 125mg/5mL phenoxymethylpenicillin oral solution contains 2.8g of sugar

References	1. Paediatric Dosage Handbook Taketomo et al 16th Ed 2009. 2. BNF for children 2009 3. www.medsafe.govt.nz
Updated By	A Lynn, B Robertshawe Dec 2011 A Lynn, B Robertshawe Dec 2012 (re-order profile) A Lynn, B Robertshawe Oct 2013 oral dilution instructions A Lynn, B Robertshawe Dec 2021 (routine review, no changes)