

Benzylpenicillin (Penicillin G)

FORM Vials containing 600mg powder for reconstitution

INDICATION

1. First line antibiotic for treatment of early sepsis.
Treatment of infections where sensitivities indicate.
2. Meningitis, meningococcal disease

DOSE RANGE

1. Early Onset Sepsis / Infection where sensitivities indicate

AGE	DOSE	FREQUENCY	ROUTE
Premature	50mg/kg/dose	2 times daily	I.V.
Term < 7 days	50mg/kg/dose	2 times daily	I.V.
Term 7 to 28 days	50mg/kg/dose	3 times daily	I.V.
1 to 6 months	50mg/kg/dose	4 times daily, up to 6 times daily in meningitis.	I.V.

2. Meningitis, meningococcal disease

AGE	DOSE	FREQUENCY	ROUTE
Preterm neonate and neonate	75mg/kg/dose	3 times daily	I.V. over 15 minutes
Child 1 to 6 months	50mg/kg/dose	4 to 6 times daily	I.V.

RECONSTITUTION

Reconstitute a 600mg vial of Benzylpenicillin with 5.6ml Water for Injection to give a **600mg in 6ml solution** (Displacement Volume 0.4ml/600mg).

DILUTION

NOT REQUIRED

METHOD OF ADMINISTRATION

Slow IV Bolus / infusion over 5-30 minutes.

Dosage guide:

- 600mg in 6ml
- 100mg in 1ml
- 10mg in 0.1ml

NB. Longer administration time is particularly important when using high doses as too rapid administration has been associated with CNS toxicity and convulsions.

COMPATIBILITY

Solution compatibility	sodium chloride 0.45%, sodium chloride 0.9%, Glucose 5%, Glucose 10%, buffered sodium chloride 0.9%
Solution incompatibility	Intralipid
IV Line compatibility	Calcium gluconate
IV Line incompatibility	Ambisome, Dobutamine, flucloxacillin, gentamicin, insulin, phenytoin, potassium chloride, sodium bicarbonate, vancomycin

THIS LIST IS NOT EXHAUSTIVE PLEASE CONTACT PHARMACY FOR FURTHER INFORMATION ON COMPATIBILITY WITH ANY MEDICINES NOT INCLUDED

West of Scotland NEONATAL PARENTERAL Drug Monographs

CAUTIONS, CONTRA-INDICATIONS AND SIDE EFFECTS

- See Summary of Product Characteristics and most recent edition of BNF for Children (links below)
- The dose of benzylpenicillin should be reduced in renal failure
- Large doses may cause hypokalaemia or hypernatraemia

FURTHER INFORMATION 1 mega unit is equivalent to 1,000,000 units or 600mg.

STORAGE Benzylpenicillin Injection may be stored at room temperature.

PH 5.5 - 7.5

LICENSED STATUS Licensed for use in all ages.

LINKS [BNF for Children:](#) / [Electronic Medicines Compendium](#)

APPLICABLE POLICIES [West of Scotland Neonatal Guidelines:](#)

Consult local policy if applicable

Document Number:	002	Supersedes:	001
Prepared by:	WoS Neo pharm group	Checked by	June Grant
Date prepared	May 2016	Date updated	August 2019
Updated by	June Grant	Review Date	August 2022

Administer reconstituted solutions immediately.

All vials, ampoules and infusion bags are for single use only unless otherwise stated.

Dose may vary depending on indication, age, renal function, hepatic function, and concomitant medications.
This monograph should be used in conjunction with the package insert, BNF for Children, and Summary of Product Characteristics. For further advice contact your clinical pharmacist or pharmacy department.