

## ampicillin

## 500mg, 1gram injection

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**Note**

This guideline provides advice of a general nature. This statewide guideline has been prepared to promote and facilitate standardisation and consistency of practice, using a multidisciplinary approach. The guideline is based on a review of published evidence and expert opinion.

Information in this statewide guideline is current at the time of publication.

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Health practitioners in the South Australian public health sector are expected to review specific details of each patient and professionally assess the applicability of the relevant guideline to that clinical situation.

If for good clinical reasons, a decision is made to depart from the guideline, the responsible clinician must document in the patient's medical record, the decision made, by whom, and detailed reasons for the departure from the guideline.

This statewide guideline does not address all the elements of clinical practice and assumes that the individual clinicians are responsible for discussing care with consumers in an environment that is culturally appropriate and which enables respectful confidential discussion. This includes:

- The use of interpreter services where necessary,
- Advising consumers of their choice and ensuring informed consent is obtained,
- Providing care within scope of practice, meeting all legislative requirements and maintaining standards of professional conduct, and
- Documenting all care in accordance with mandatory and local requirements

**Dose and Indication**

1gram = 1000mg

**Infection due to susceptible organisms****Intravenous, Intramuscular**

50mg/kg/dose

<b>Corrected Age (weeks)</b> <b>[Gestational Age PLUS Postnatal Age]</b>	<b>Postnatal age</b> <b>(days)</b>	<b>Frequency (hours)</b>
< 30	≤ 28	every 12 hours
	>28	every 8 hours
30 to 36	≤ 14	every 12 hours
	>14	every 8 hours
37 to 44	≤ 7	every 12 hours
	>7	every 8 hours

Length of treatment should be guided by pathology and clinical picture; however in proven sepsis treatment should continue for a minimum of 7 days

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South Australian Maternal & Neonatal Clinical Network  
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South Australian Neonatal Medication Guidelines Workgroup at:  
NeoMed@health.sa.gov.au

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### Meningitis and Osteomyelitis

#### Intravenous

100mg/kg/dose

Corrected Age (weeks) [Gestational Age PLUS Postnatal Age]	Postnatal age (days)	Frequency (hours)
<30	≤ 28	every 12 hours
	>28	every 8 hours
30 to 36	≤ 14	every 12 hours
	>14	every 8 hours
37 to 44	≤ 7	every 12 hours
	>7	every 8 hours

Length of treatment should be guided by pathology, clinical picture and infectious disease consultant advice.

### Preparation and Administration

#### Intravenous

Vial Strength (mg)	Volume of Water for Injection to add (mL)	Final Concentration of ampicillin (mg/mL)
500mg	4.7mL	100mg/mL
1000mg	9.3mL	100mg/mL

Dose	50mg	100mg	150mg	200mg	250mg	300mg
Volume	0.5mL	1mL	1.5mL	2mL	2.5mL	3mL

Push over at least 5 minutes. For patients being treated for meningitis, the dose must be administered over at least 10 minutes.

Discard remaining solution

#### Intramuscular

Vial Strength (mg)	Volume of Water for Injection to add (mL)	Final Concentration of ampicillin (mg/mL)
500mg	2.2mL	200mg/mL
1000mg	4.3mL	200mg/mL

Dose	50mg	100mg	150mg	200mg	250mg	300mg
Volume	0.25mL	0.5mL	0.75mL	1mL	1.25mL	1.5mL

Discard remaining solution

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### Compatible Fluids

Sodium chloride 0.9%

### Adverse Effects

#### Common

Diarrhoea, pain and inflammation at injection site, secondary infection especially during prolonged treatment with broad-spectrum beta-lactam antibiotics

#### Infrequent

Vomiting, [Clostridium difficile-associated disease](#)

#### Rare

Rash, black tongue, electrolyte disturbances (hypernatraemia or hypokalaemia due to sodium content of high parenteral doses), neurotoxicity, bleeding, blood dyscrasias, crytalluria (high IV doses)

Anaphylactic shock is not commonly seen in the neonates.

### Practice Points

- > The stability of ampicillin is greatly reduced in glucose solution. However ampicillin can be injected into the side arm of a glucose infusion as the contact time with the solution is insufficient to cause significant drug degradation.
- > Rapid administration of large doses may result in CNS excitation or seizure activity.
- > For mild infections use oral amoxycillin.

### Version control and change history

**PDS reference:** OCE use only

Version	Date from	Date to	Amendment
1.0	November 2012	current	Original version

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