

cefTAZIDIME

1gram, 2gram 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 Indications

1g = 1000mg

2g = 2000mg

Consult Infectious Diseases prior to use

Infection due to susceptible organisms

Intravenous, Intramuscular

50 mg/kg/dose

Corrected Gestational Age (weeks) (Gestational age + 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	≤ 7	every 12 hours
	> 7	every 8 hours

Length of treatment should be guided by pathology and clinical picture.



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Preparation and Administration

Intravenous

Vial Strength (mg)	Volume of Water for Injection to add (mL)	Final Concentration of cefTAZIDIME (mg/mL)
1000mg	9.1mL	100mg/mL
2000mg	8.2mL	200mg/mL

Shake the vial to dissolve the powder and wait until solution becomes clear (1 to 2 minutes)

The powder in the vial is under reduced pressure. However, as the product dissolves carbon dioxide is released and positive pressure develops. Pressure may need to be vented from the vial before withdrawing dose.

Dilution for 2g vial after reconstitution:

Add 5mL of 200mg/mL cefTAZIDIME to 5mL of water for injection. The final concentration of cefTAZIDIME is 100mg/mL

Dose table for 100mg/mL solution:

Dose	25mg	50mg	75mg	100mg	125mg	150mg
Volume	0.25mL	0.5mL	0.75mL	1.0mL	1.25mL	1.5mL

Administer as an intravenous push over at least 3 minutes

Intramuscular (only for 1g vial)

Vial Strength (mg)	Volume of Water for Injection to add (mL)	Final Concentration of cefTAZIDIME (mg/mL)
1000mg	3mL	260mg/mL

Shake vigorously to dissolve.

For intramuscular use, cefTAZIDIME powder can be reconstituted with 1% lidocaine (lignocaine) hydrochloride.

Intramuscular injections are painful and not recommended.

Dose table for 260mg/mL solution:

Dose	25mg	50mg	75mg	100mg	125mg	150mg
Volume	0.1mL	0.2mL	0.3mL	0.4mL	0.5mL	0.6mL

Administer as an intramuscular injection



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Compatible Fluids

Glucose 5%, glucose 10%, sodium chloride 0.9%

Adverse Effects

Common

Diarrhoea, vomiting, pain and inflammation at injection site, rash, *Clostridium difficile*-associated disease, superinfection

Infrequent

Neurotoxicity (seizures, encephalopathy) particularly with high doses and/or renal impairment, blood dyscrasias, (neutropenia related to dose and treatment duration, thrombocytopenia)

Anaphylactic shock is not commonly seen in neonates

Practice Points

- > Third generation cephalosporins should be used judiciously to minimise the emergence of resistant strains.
- > CefTAZIDIME should not be mixed with vancomycin in the same giving set or at Y-site
- > IV cephalosporins can inactivate IV aminoglycoside antibiotics (e.g., gentamicin). Preferably separate doses by 1 hour. If it is not possible to separate doses, flush the line well with sodium chloride 0.9%, before and after giving each medication

Document Ownership & History

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17/05/2023	V4	Domain Custodian, Clinical Governance, Safety and Quality	Formally reviewed in line with 5 year scheduled timeline for review
11/08/2017	V3	SA Health Safety and Quality Strategic Governance Committee	Addition of 2g vial dilution directions
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11/2012	V1	SA Maternal & Neonatal Clinical Network	Original SA Maternal & Neonatal Clinical Network approved version.

