

ticarcillin-clavulanate

ticarcillin 3g with clavulanate 100mg injection

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Dose and Indications

1gram = 1000mg

Dose according to ticarcillin content

Infection due to susceptible organisms

Monotherapy in the empirical treatment of necrotising enterocolitis

Intravenous

75mg/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 and clinical picture; however in proven sepsis treatment should continue for a minimum of 7 days.

Preparation and Administration

Intravenous

There are **TWO STEPS** to this process.

FIRST STEP: Add 13mL of Water for Injection to the vial (3000mg ticarcillin) and shake gently to dissolve (to give a total volume of 15mL). The resulting solution contains 200mg/mL ticarcillin.

SECOND STEP: Further dilute 2mL of the 200mg/mL ticarcillin solution with 2mL of compatible fluid (to a total volume of 4mL). The resulting solution contains 100mg/mL ticarcillin.

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

Infuse over at least 30 minutes. Discard remaining solution

Compatible Fluids

Glucose 5%, sodium chloride 0.9%

Adverse Effects

Common

Diarrhoea, rash.

Infrequent

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

Bronchospasm, angioedema.

Rare

Black tongue, electrolyte disturbances (hypernatraemia or hypokalaemia due to sodium content of high parenteral doses), neurotoxicity, transient increases in liver enzymes and bilirubin, cholestatic jaundice, bleeding abnormalities (prolonged bleeding times and altered platelet aggregation)

Anaphylactic shock is not commonly seen in the neonates

Monitoring

- > Periodic liver function tests, with prolonged treatment
- > Observe intravenous site for extravasation

Practice Points

- > Piperacillin with tazobactam is the preferred monotherapy for gastrointestinal surgical conditions
- > This is a broad spectrum antibiotic and is generally used on specialist advice.

Version control and change history

PDS reference: OCE use only

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