Ceftolozane/Tazobactam Intravenous Infusion for Adults

Who can administer

May be administered by registered competent doctor or nurse/midwife

Important information

- **Zerbaxa** vial contains ceftolozane 1g and tazobactam 0.5g. **Prescribe as combination i.e. 1g/0.5g, 2g/1g** etc
- **Restricted to Microbiology or Infectious Diseases advice only (Red-light antimicrobial)**
- **If documented IMMEDIATE, or SEVERE DELAYED hypersensitivity REACTION to PENICILLIN, CEPHALOSPORINS or CARBAPENEMS: DO NOT GIVE THIS DRUG**
- **Contains Sodium** (10mmol per vial)
- See under Dose for adjustments required in Renal impairment

Available preparations

Zerbaxa vial (ceftolozane 1g and tazobactam 0.5g)

Reconstitution

Water for injection or Sodium chloride 0.9%

- 10ml per 1.5g vial
- Shake gently to dissolve the powder
- Final volume 11.4ml per vial
- **Dilute further prior to administration**

Infusion fluids

Sodium chloride 0.9% or Glucose 5%

Methods of intravenous administration

Intermittent intravenous infusion

- Any dose may be added to 100ml infusion fluid and administer over 60 minutes

Dose of Ceftolazone/tazobactam Volume of reconstituted injection

2g/1g	22.8ml (two vials)
1.5g/0.75g	17.1ml
1g/0.5g	11.4ml (one vial)
500mg/250mg	5.7ml
300mg/150mg	3.5ml
250mg/125mg	2.9ml
100mg/50mg	1.2ml

Dose in adults

Complicated intra-abdominal infection, Complicated urinary tract infection, Acute Pyelonephritis

- Give 1g ceftolazone / 0.5g tazobactam (one vial) every eight hours

Hospital acquired pneumonia, including ventilator-associated pneumonia

- Give 2g ceftolazone /1g tazobactam (two vials) every eight hours

Renal impairment

See table in Methods of administration for how to work out doses below- eg 500mg/250mg- use 5.7ml reconstituted solution

eGFR (ml/min)	Complicated intra-abdominal infection, Complicated urinary tract infection, Acute Pyelonephritis	Hospital acquired pneumonia, including ventilator-associated pneumonia
30 to 50	give 500mg cetolazone / 250mg tazobactam every 8 hours	give 1g ceftolazone /0.5g tazobactam every 8 hours
15 to 29	give 250mg ceftolazone / 125mg tazobactam every 8 hours	give 500mg ceftolazone /250mg tazobactam every 8 hours
End stage renal disease or Haemodialysis	give a single loading dose of 500mg cetolazone /250mg tazobactam, followed 8 hours later by maintenance dose of 100mg ceftolazone /50mg tazobactam every 8 hours. Administer dose immediately **after dialysis on dialysis days**	give a single loading dose of 1.5g ceftolazone /0.75g tazobactam, followed 8 hours later by maintenance dose of 300mg ceftolazone / 150mg tazobactam every 8 hours. Administer dose immediately **after dialysis on dialysis days**

Hepatic impairment

- No dosage adjustment required

Storage

- Store between 2 and 8^{0}C

References

- SPC 02/08/2022

Therapeutic classification

Cephalosporin antibiotic (fifth generation) with beta-lacatamase inhibitor