

# Ertapenem Intravenous Infusion for Adults

## Who can administer

May be administered by registered competent doctor or nurse/midwife

## Important information

- **Red-light antimicrobial:** Requires pre-authorisation from Microbiology or ID prior to use 24 hours/7 days a week
- Ertapenem is a carbapenem. **Avoid if** history of immediate or severe hypersensitivity reaction to **penicillins or cephalosporins**
- See under 'Dose' for adjustments required in **renal** impairment
- Co-administration with **valproate** may result in a decrease in valproic acid levels below the therapeutic range - therefore **concurrent use is not recommended**

## Available preparations

Invanz 1 gram vial

## Reconstitution

**Water for injection or sodium chloride 0.9%**

10mL per 1g vial (produces 100mg/mL solution)

**Dilute further prior to administration**

## Infusion fluids

Sodium chloride 0.9% **only**

## Methods of intravenous administration

**Intermittent intravenous infusion (administer using an electronically controlled infusion device)**

- Add 500mg or 1g dose to 50mL infusion fluid
- The residual volume in the infusion line must be flushed through at the same rate to avoid significant underdosing
- Administer over 30 minutes

## Dose in adults

**Usual dose**

- Give 1g every 24 hours

**Renal impairment** <sup>(ref 1)</sup>

- Risk of seizures
- Patients with renal impairment are at higher risk of ertapenem-induced encephalopathy and the

resolution may be prolonged

- Not recommended by manufacturer due to lack of data in GFR<30 mL/min but a dose of 50% is recommended in US data sheet. The following table reflects the Renal Drug Database information

eGFR (mL/min/1.73m <sup>2</sup> )	Dose	Frequency
<b>30 to 50</b>	Usual dose	
<b>10 to 30</b>	500mg to 1g	Every twenty-four hours
<b>Less than 10</b>	1g three times weekly <b>OR</b> 500mg every 24 hours	
<b>Renal replacement therapy</b>	Consult pharmacy or specialist literature	

## Storage

Store below 25<sup>0</sup>C

## References

SPC Feb 2nd 2022

1. Renal drug database, accessed online 28/05/2025

## Therapeutic classification

Carbapenem antibiotic