**Other Names**
- Ancef®, Kefzol®

**Classification**
Antibiotic - cephalosporin

**Allergy Alert**
See Contraindications/Cautions

## Indications for IV Use

**Health Canada Approved**
- Treatment of severe systemic infections caused by susceptible organisms.
- Surgical prophylaxis.

**Spectrum of Activity**
- Gram positive: Streptococcal species, Staph. aureus and epidermidis
- Gram negative: including E. coli, Klebsiella species, and Proteus mirabilis.

## Contraindications
- Hypersensitivity to cefazolin or other cephalosporins.
- Previous anaphylactic reaction to penicillins.

## Cautions
- Previous hypersensitivity to penicillins.
- Gastrointestinal disease, particularly colitis.
- Renal impairment.

**Pregnancy/Breast Feeding:** Contact pharmacy for most recent information.

## Administration

<table>
<thead>
<tr>
<th>MODE</th>
<th>Direct Into IV Tubing</th>
<th>Intermittent Infusion</th>
<th>Continuous Infusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHO MAY GIVE</td>
<td>All registered nurses</td>
<td>All registered nurses</td>
<td>NO</td>
</tr>
<tr>
<td>ADULT</td>
<td>Dilute to at least 10 mL with compatible IV fluid. Give over 3-5 minutes.</td>
<td>Dilute in 50 – 100 mL minibag. Infuse over 20 – 30 minutes.</td>
<td></td>
</tr>
<tr>
<td>PAEDIATRIC</td>
<td>As above</td>
<td>See Syringe pump infusion chart</td>
<td></td>
</tr>
<tr>
<td>NEONATE</td>
<td>Give over 3-5 minutes.</td>
<td>Infuse over 30 minutes.</td>
<td></td>
</tr>
</tbody>
</table>

## Monitoring

**Required**
- None

**Recommended**
- None

## Reconstitution
- Available as 500 mg and 1 g vials.
- Reconstitute with sterile water, D5W or NS. Reconstitution device can be used.
- Volume of diluent required may vary with brand. See vial for exact volume of diluent and resulting concentration.

## Compatibility/Stability
- Compatible in dextrose, normal saline, dextrose-saline combinations, Ringer's and lactated Ringer's solutions for 24 hours at room temperature.
- Reconstituted vials stable for 24 hours at room temperature and for 96 hours in refrigerator.
- Compatible with metronidazole in the same minibag.
- For additional drug-drug compatibility contact Drug Information.
ADVERSE EFFECTS

1. HYPERSENSITIVITY:
   - Anaphylaxis, eosinophilia, itching, fever, rash.

2. HEPATIC:
   - Transient increase in AST, ALT and alkaline phosphatase.

3. MISCELLANEOUS:
   - Thrombophlebitis.
   - False positive Coombs test.
   - Seizures (associated with high doses in uraemic patients).

DOSE

ADULT

Mild Infections:
- 250 – 500 mg every 8 hours.

Moderate to severe infections:
- 500 mg – 1 g every 8 hours.
- Up to 6 g/24 hours has been used in life threatening infections. Higher doses of 12 g/24 hours have also been reported.
- Doses of 2 g may be required in morbidly obese patients.

Surgical prophylaxis:
- 1 g 30 to 60 minutes pre-op and every 8 hours post-op x 1 dose, or x 24 hours, depending on surgical procedure.

Cellulitis in out-patients:
- 2 g every 24 hours plus oral probenecid 1 g 10-60 minutes prior to cefazolin. For patients unable to tolerate 1 g probenecid, 500 mg PO QID has been used.

ELDERLY
- Usual adult dose with adjustments for renal function when appropriate.

PAEDIATRIC
- 50-100 mg/kg/day divided every 8 hours.
- Max dose: 6 g/24 hours.

NEONATE:
- 25 mg/kg/dose

<table>
<thead>
<tr>
<th>Postmenstrual Age (weeks)</th>
<th>Postnatal Age (days)</th>
<th>Interval (hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 29</td>
<td>0 to 28</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>&gt;28</td>
<td>8</td>
</tr>
<tr>
<td>30 to 36</td>
<td>0 to 14</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>&gt;14</td>
<td>8</td>
</tr>
<tr>
<td>37 to 44</td>
<td>0 to 7</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>&gt;7</td>
<td>8</td>
</tr>
<tr>
<td>&gt;45</td>
<td>All</td>
<td>6</td>
</tr>
</tbody>
</table>

RENAL IMPAIRMENT ADJUSTMENTS

<table>
<thead>
<tr>
<th>Creatinine clearance (mL/min)</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>greater than 50</td>
<td>q8h</td>
</tr>
<tr>
<td>10-50</td>
<td>q12h</td>
</tr>
<tr>
<td>less than 10</td>
<td>q24 – 48h</td>
</tr>
</tbody>
</table>

HEPATIC IMPAIRMENT ADJUSTMENTS
- No adjustment necessary.

HEMO/PERITONEAL DIALYSIS
- Haemodialysis: 500 mg – 1 g after dialysis.
- CAPD: 500 mg every 12 hours.
- CAVH: dose for creatinine clearance 10-50 mL/min i.e. every 12 hours.

MISCELLANEOUS
- Can be given IM.
CEFAZOLIN - REFERENCES


8. Spina SP, Dillon EC. The effect of chronic dosing of probenecid on cefazolin serum concentrations. Poster presentation at Western Branches CSHP. Banff, AB; 2002 Mar 8-10.


