



Procef 5250: Each capsule contains Cefradine BP 250 mg.

Procef 500: Each capsule contains Cefradine BP 500 mg.

Procef powder for suspension: After reconstitution according to direction each 5 ml suspension contains.

Procest powder for suspension: After reconstitution according to direction each 5 ml suspension contains lefradine BP 125 mg.

Procest Fort powder for suspension: After reconstitution according to direction each 5 ml suspension contains lefradine BP 250 mg.

Tropest To product for processing the second state of the second Cefrad Procef paediatric drops: After reconstitution according to direction each 1.25 ml contains

Cefradine BP 250 mg.
Procef® powder for paediatric drops: After reconstitution according to direction each 1.25 ml contains
Cefradine BP 125 mg.
Procef® 250 IM/IV Injection: Each vial contains Cephradine for injection USP equivalent to Cephradine 250 mg.
Procef® 500 IM/IV Injection: Each vial contains Cephradine for injection USP equivalent to Cephradine 500 mg.
Procef® 1 gm IM/IV Injection: Each vial contains Cephradine for injection USP equivalent to Cephradine 1 gm.

Description

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Cefradine is a first generation cephalosporin antibiotic that works in a similar way to penicillin by inhibiting bacterial cell wall synthesis. It has a broad spectrum bactericidal activity against both gram-positive and gram-negative bacteria. The organisms sensitive to Cefradine are group A beta hemolytic streptococci staphylococci including coagulase-positive, coagulase-negative and penicillinase-producing strains, Streptococcus pneumoniae, Escherichia coli, Proteus mirabillis, Klebsiella species and Hemophilus influenzae. Cefradine is acid stable and is rapidly absorbed after oral administration in the fasting condition. The presence of food in the gastrointestinal tract delays absorption but does not affect the total amount of Cefradine absorbed. Over 90% of the drug is excreted unchanged in the urine. Cefradine is minimally (8 to 17%) bound to normal plasma protein and does not cross the blood-brain barrier.

Indications
Procef (Cefradine) is indicated for the treatment of the following infection when caused by susceptible organisms:
The upper and lower respiratory tract infections: pharyngitis, sinusitis, otitis media, tonsillitis,

organisms:

The upper and lower respiratory tract infections: pharyngitis, sinusitis, otitis media, tonsillitis, laryngo-tracheo-bronchitis, acute and chronic bronchitis, lobar and chronic bronchopneumonia.

Urinary tract infections: cystitis, urethritis, pyelonephritis.

Skin and soft tissue infections: abscess, cellulitis, furunculosis and impetigo.

Surgical prophylaxis: Surgical procedures associated with high risk of disastrous consequences of infections. Procef is also of value where postoperative infections would be disastrous and where patients have a reduced host resistance to bacterial infection. Protection is best ensured by achieving adequate local tissue concentrations at the time when contaminations are likely to occur. Thus, Procef should be administered immediately prior to surgery and continued during the postoperative period.

### Dosage and Administration

Procef (Cefradine) may be given regardless of mea

### Adults

Adults
Oral: The usual dose is 1-2 gm daily in 2 to 4 divided doses. In severe and chronic infection, the dose can be increased upto 4 gm daily which should be given in equally divided doses.

In skin and skin structure infections and respiratory tract infections: Usual dose is 250 mg every 6 hours or 500 mg every 12 hours.

In Lobar pneumonia: Usual dose is 500 mg every 6 hours or 1g every 12 hours. In uncomplicated urinary tract infections: Usual dose is 500 mg every 12 hours. In more serious urinary tract infections including prostatitis, 500 mg every 6 hours or 1 g every 12 hours may be administered.

Injection: The usual dose is 2-4 g daily in four equally divided doses by deep intramuscular or intravenous route. Dose may be increased to 8 gm daily in severe infections e.g. septicaemia and endocarditis.

Surgical prophylaxis: 1-2 gm immediately prior to surgery, by intramuscular or intravenous injection over 3-5 minutes. Subsequent parenteral or oral doses can be administered as appropriate.

Children

Oral: The usual dose is 25-50 mg/kg/day total, given in 2 or 4 equally divided doses. For otitis media daily dose from 75-100 mg/kg body wt. in divided doses every 6 to 12 hours are recommended. Dose may be increased up to 4 g/day depending on the severity of the infection.

Injection: 50-100 mg/kg/day total, given in 4 equally divided doses. (200-300 mg/kg/day may be required in more severe infections)

Elderly
There are no specific dosage recommendations or precautions for use in the elderly except as with other drugs to monitor those patients with impaired renal or hepatic functions.

Dosage in renal impairment

A modified dosage schedule is necessary in patients with decreased renal function. Each patient should be considered individually. The following modified dosage schedule is recommended as a guideline, based on creatinine clearance. In adults, the initial loading dose is 750 mg of Cefradine and the maintenance dose is 500 mg at the following intervals:

Creatinine Clearance	Time intervals
More than 20 ml/min	6-12 hours
15-19 ml/min	12-24 hours
10-14 ml/min	24-40 hours
5-9 ml/min	40-50 hours
Less than 5 ml/min	50-70 hours

Further modification of the dosage schedule may be necessary in children Side effect

Rarely Cefradine may induce a hypersensitivity reaction and gastrointestinal disturbances which include nausea, vomiting, diarrhoea, glossitis, heartburn, dizziness, abdominal pain, candidial overgrowth, vaginitis, skin rashes, urticaria, joint pain and oedema. As with other cephalosporin mild transient eosinophilia, leucopenia, neutropenia and rarely positive direct coombs test and pseudomembraneous colitis have been **Drug interaction** 

The cephalosporins are potentially nephrotoxic (particularly Cefaloridine) and may enhance the nephrotoxicity of aminoglycoside antibiotics such as Gentamycin and Tobramycin. One should be cautious about the use of any cephalosporin with Frusemide and Ethacrynic acid.

**Use in pregnancy and lactation**No teratogenicity has been demonstrated in animals, but safety in pregnancy has not been established. Cefradine is excreted in the breast milk and should be used with caution in lactating mothers.

# Contraindication

Patients with known hypersensitivity to cephalosporin antibiotics. Precaution

There is evidence of partial cross-allergenicity between penicillins and cephalosporins. Therefore Cefradine should be used with caution in patients with known hypersensitivity to penicillins.

Directions for reconstitution

Procef powder for suspension:

Add 70 ml (14 measuring spoonful) of boiled and cooled water to the dry mixture in the bottle. For ease of preparation add water to the bottle in two portions. Shake the bottle well after each addition of water until all

Procef fort powder for suspension:

Add 55 ml (with the help of supplied measuring cup) of boiled and cooled water to the dry mixture in the bottle. For ease of preparation add water to the bottle in two portions. Shake the bottle well after each addition of water until all the powder is in suspension.

## Procef powder for paediatric drops

Add 1 Note: 0 ml (2 measuring spoonful) of boiled and cooled water to the bottle and shake vigorously.

Shake both the suspension and paediatric drops bottle well before each use. Keep the bottle tightly 10

closed.

## Procef 250 IM/IV Injection

Intramuscular injection: Add 1.2 ml of supplied water for injection BP to the vial and shake. Intravenous injection: Add 5 ml of supplied water for injection BP to the vial and shake. The solution should be slowly injected directly into a vein over a 3 to 5 minute period.

# Procef 500 IM/IV Injection:

Intramuscular injection: Add 2 ml of supplied water for injection BP to the vial and shake. Intravenous injection: Add 5 ml of supplied water for injection BP to the vial and shake. The solution should be slowly injected directly into a vein over a 3 to 5 minute period.

Procef 1 gm IM/IV Injection:
Intramuscular injection : Add 4 ml of supplied water for injection BP to the vial and shake.
Intravenous injection : Add 10 ml of supplied water for injection BP to the vial and shake. The solution should be slowly injected directly into a vein over a 3 to 5 minute period.

Storage Cefradine capsule, powder for suspension, powder for paediatric drops and vial (for injection): Do not store above 30°C.

### The reconstituted suspension should be used within 7 days if kept at room temperature or within 14 days if refrigerated. The reconstituted solution should be used within 2 hours if kept at room temperature or within 12 hours if kept in refrigerator (2-8°C).

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Commercial pack

Procef® 250: Each box contains 4 Alu-Alu blister strips of 6 capsules.

Procef® 500: Each box contains 5 Alu-Alu blister strips of 4 capsules.

Procef® powder for suspension: Each bottle contains powder to be reconstituted into 100 ml suspension.

Procef® powder for suspension: Each bottle contains powder to be reconstituted into 100 ml suspension.

Procef® powder for paediatric drops: Each bottle contains powder to be reconstituted into 15 ml drops.

Procef® 250 IM/IV Injection: Each box contains 4 combipacks. Each combipack contains 1 vial of Cephradine for injection USP equivalent to Cephradine 250 mg and 1 ampoule of 5 ml water for injection.

Procef® 500 IM/IV Injection: Each box contains 4 combipacks. Each combipack contains 1 vial of Cephradine for injection USP equivalent to Cephradine 500 mg and 1 ampoule of 5 ml water for injection.

Procef® 1 gm IM/IV Injection: Each box contains 1 combipack. The combipack contains 1 vial of Cephradine for injection USP equivalent to Cephradine 1 combipack.

Procef ®1 gm IM/IV Injection: Each box contains 1 combipack. The combipack contains 1 vial of Cephradine for injection USP equivalent to Cephradine 1 gm and 1 ampoule of 10 ml water for injection..

