

PERIFLOX CAPSULE

GENERIC NAME:	Flucloxacillin
Category:	Penicillin Antibiotic
Composition:	Each Capsule contains Flucloxacillin Sodium equivalent to Flucloxacillin 250/500 mg

MECHANISM OF ACTION

β -Lactam antibiotic, Flucloxacillin is bacteriocidal, and act by inhibiting the synthesis of the peptidoglycan layer of bacterial cell walls. The final transpeptidation step in the synthesis of the peptidoglycan is facilitated by transpeptidases known as penicillin binding proteins (PBPs). Flucloxacillin differs from other penicillin-type antibiotics. When bacteria become resistant to penicillin antibiotics it is because they produce an enzyme called penicillinase. This enzyme breaks down the penicillin and makes it ineffective at killing the bacteria. Flucloxacillin is not affected by this enzyme due to acyl side chain in it.

INDICATIONS

- Staphylococcal Skin and soft tissue and wound Infections and cellulitis (boils, carbuncles, impetigo, infected burns, wounds, otitis externa, folliculitis, mastitis and protection of skin grafts)
- Osteomyelitis and Septic arthritis
- RTIs (Pneumonia, Sinusitis and Tonsillitis)
- Surgical Prophylaxis
- Other infections such as urinary tract infection, gastroenteritis, meningitis, endocarditis (heart infection), septicaemia (blood infection)

PHARMACOKINETICS

Absorption

Blood level studies in fasting subjects show that it is well absorbed following oral administration. The presence of food in the gastrointestinal tract delays the absorption of Flucloxacillin resulting in lower peak serum levels.

The peak serum levels of flucloxacillin reached after 1 hour are as follows.

- After 250 mg by the oral route (in fasting subjects): approximately 8.8 mg/l.
- After 500 mg by the oral route (in fasting subjects): approximately 14.5 mg/l.

Absorption is more efficient when taken on an empty stomach. The total quantity absorbed by the oral route represents approximately 79% of the quantity administered.

Distribution

Flucloxacillin diffuses well into most tissues. Specifically, active concentrations of flucloxacillin have been recovered in bones: 11.6 mg/l (compact bone) and 15.6 mg/l (spongy bone), with a mean serum level of 8.9 mg/l. Crossing the meningeal barrier: Flucloxacillin diffuses in only small proportion into the cerebrospinal fluid of subjects whose meninges are not inflamed. Crossing into mother's milk: Flucloxacillin is excreted in small quantities in mother's milk.

Metabolism

Flucloxacillin is metabolised to a limited extent.

Approximately 10% of the flucloxacillin administered is metabolized to penicilloic acid.

The elimination half-life of flucloxacillin is 30-60 minutes.

Excretion

The unchanged drug and metabolites are excreted by the kidneys by both tubular secretion and glomerular filtration. Elimination of flucloxacillin is decreased in renal failure and in the elderly, but dosage adjustment is only required if creatinine clearance is less than 10 mL/min.

For further information, please contact:

Market Planning Department



Deurali-Janta Pharmaceuticals Pvt. Ltd.

GPO Box 4239, 355 Hattisar Road, Kamalpokhari, Kathmandu, Nepal.

Tel: 4435167/68/69 E-mail: mplanning@deuralijanta.com Website: www.deuralijanta.com
