

# Flamox®

(Dry Powder for Suspension)

Flucloxacillin Magnesium

Antibacterial

Amoxicillin Trihydrate

## Flamox® Dry Powder For Suspension 250mg/5mL

### PRESENTATION:

Flamox® Dry Powder For Suspension 250mg/5mL: White granular powder which on reconstitution forms an orange suspension with fruity odour. Each 5mL spoonful of the resultant suspension contains: Flucloxacillin Magnesium equivalent to Flucloxacillin 125mg and Amoxicillin Trihydrate equivalent to Amoxicillin 125mg.

### CLINICAL PHARMACOLOGY:

Flucloxacillin is an isoxazolyl penicillin. It has bactericidal action against Gram-positive bacteria, Gram-negative cocci, some other Gram-negative bacteria, spirochaetes and actinomycetes. It exerts its killing action on growing and dividing bacteria by inhibiting bacterial cell wall synthesis, although the mechanisms involved are still not precisely understood. Bacterial cell walls are held rigid and protected against osmotic rupture by peptidoglycan. Flucloxacillin inhibits the final cross-linking stage of peptidoglycan production by binding to and inactivating transpeptidases, penicillin-binding proteins on the inner surface of the bacterial cell membrane. Flucloxacillin is resistant to staphylococcal penicillinase.

Amoxicillin is a beta-lactam antibiotic. It is bactericidal and has a similar mode of action to that of benzylpenicillin but has an aminopenicillin with an amino group side chain attached to the basic penicillin structure. Amoxicillin penetrates the outer membrane of some Gram-negative bacteria and has a broader spectrum of activity.

### PHARMACOKINETICS:

Flucloxacillin is absorbed from the gastro-intestinal tract but absorption is also reduced by the presence of food in the stomach. It is reported to have a plasma half-life of approximately 1 hour. The half-life is prolonged in neonates. Flucloxacillin is metabolised to a limited extent and the unchanged drug and metabolites are excreted in the urine by glomerular filtration and renal tubular secretion. About 66% of a dose by mouth is excreted in the urine within 8 hours. Only small amounts are excreted in the bile.

Amoxicillin is resistant to inactivation by gastric acid. Peak plasma-amoxicillin concentrations of about 5 $\mu$ g per mL have been observed in 1 to 2 hours after a dose of 250mg. About 20% is bound to plasma proteins in the circulation and plasma half-lives of 1 to 1.5 hours have been reported. The half-life may be longer in neonates and the elderly. In renal failure half-lives have been 7 to 20 hours long. Amoxicillin is widely distributed at varying concentrations in body tissues and fluids. It crosses the placenta; small amounts are distributed into breast milk. Amoxicillin is metabolised to a limited extent to penicilloic acid and is excreted in the urine.

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## USES:

Flamox® is used for treatment of severe infections where the causative organisms is unknown, chest infections, ENT infections, skin infections and soft tissue infections.

## DOSAGE AND ADMINISTRATION:

**Adults:** 10mL of the suspension four times a day or as directed by the physician.

**Children:** 2-10 years: 5mL of the suspension four times a day or as directed by the physician.

## CONTRA-INDICATIONS AND WARNINGS:

Patients known to be hypersensitive to penicillin should be given an antibiotic of another class. It should be given with caution to patients with a history of allergy especially to drugs. Care is necessary if very high doses of penicillin are given especially if renal function is poor because of the risk of neurotoxicity.

### ***Adverse Effects:***

The most common adverse effects of Flucloxacillin and Amoxicillin are hypersensitivity reactions especially skin rashes, anaphylaxis occasionally occurs and has sometimes been fatal. Gastro-intestinal upsets (e.g. nausea, diarrhoea) has been reported.

### ***Overdosage:***

Problems of overdosage are unlikely to occur; if encountered they may be treated symptomatically.

## PHARMACEUTICAL PRECAUTIONS:

Store in a dry place below 25°C. Protect from light. Keep all medicines out of the reach of children.

## LEGAL CATEGORY:

Prescription Only Medicine (POM)

Mfg. Lic. No.: 69/MD/AP/99/F/R

Ref. No.: INS243/VC/02.18

®Regd. TM



Manufactured for:

Cosmos Limited, Rangwe Rd; Off Lunga Lunga Rd, Nairobi, Kenya.

Manufactured by:

Yeluri Formulations Pvt. Ltd.  
Sy. No. 296/7/6, I.D.A, Bollaram,  
Sangareddy district, 502 325,  
Telangana, India.