

Mupirocin

Antibiotic Class:

Monoxycarboic acid

Antimicrobial Spectrum:

Streptococcus spp., *Staphylococcus spp.*, *H. influenzae*, *M. catarrhalis*, *Neisseria spp.*, *P. multocida*

Mechanism of Action:

Protein synthesis interruption by inhibition of isoleucine incorporation into growing bacterial protein chain.

Pharmacodynamics:

No data

Pharmacokinetics:

Protein binding: 95%; Serum half-life: 20-35 minutes

Adverse Effects:

Nares: local irritation, rhinitis

Skin: Rash, purities, headache

Other: taste alterations

Dosage:

Mupirocin Nasal Ointment (Parafin based) (1g)

Mupirocin Ointment (15, 30g)

Muprocin Ointment (Polyethylene glycol based) (22g)

Impetigo: Apply to affected area q 8 hours for 3 to 5 days

Nasal decolonization of MRSA: Apply to nares q 12h for 5 days

Disease state based dosing:

Renal failure: Dosing adjustments not necessary

Hepatic failure: Dosing adjustments not necessary

Contraindications/Warnings/Precautions:

Precautions: Polyethylene glycol may be absorbed systemically if applied to open wounds

Drug Interactions:

No data available

Pregnancy: Category B: No evidence of risk in humans but studies inadequate.

Monitoring requirements:

Patients should be monitored for symptoms of local irritation.

No laboratory parameters exist to monitor for efficacy or toxicity

Brand names/Manufacturer: