

Neocin Plus®

Neomycin Sulphate BP, Bacitracin Zinc BP & Polymyxin B Sulphate BP

Description: The combination of polymyxin B sulphate with neomycin and zinc bacitracin most nearly meets the criteria for an ideal topical antibacterial preparation. Polymyxin B sulphate attacks gram-negative bacilli including clinically-isolated strains of *Pseudomonas aeruginosa* which is acknowledged to be most effective agent known for the treatment and prophylaxis of *Pseudomonas* infections. Neomycin provides bactericidal action against various gram-positive organisms and gram-negative organisms including many strains of *Proteus*. Neomycin is considered by various authorities to be the most effective antibiotic against *Staphylococcus aureus* which is among the more common aetiological organisms in topical bacterial infections. Zinc bacitracin is highly active against gram-positive bacilli and cocci and extends the spectrum to include haemolytic streptococci, thus completing the anti-bacterial range of **Neocin Plus®** Ointment.

Mode of action: Like other aminoglycosides neomycin inhibits bacterial protein synthesis. Bacitracin interferes with bacterial cell wall synthesis by inhibiting the dephosphorylation of a lipid pyrophosphate. Bacitracin inhibits cell wall production by blocking the step in the process (recycling of the membrane lipid carrier) which is needed to add on new cell wall subunits.

Composition: Each gram of **Neocin Plus®** ointment contains Neomycin Sulphate BP 3.5 mg, Bacitracin Zinc BP 400 I.U. & Polymyxin B Sulphate BP 5000 I.U.

Indications: **Neocin Plus®** ointment may be used in the treatment of infected wounds, burns or skin grafts, and it is also of value in the preparation of donor sites for skin grafting and in the prevention of infection of extensive burns and contaminated wounds. It is of value in the local treatment of chronic varicose or other indolent ulcers. The preparation is also of value in the treatment of furuncles, carbuncles, pyoderma, sycosis barbae, impetigo and acne. It has also been used in dealing with secondary infected skin lesions of scabies, pediculosis, tinea pedis and contact and allergic dermatitis.

Dosage & administration: For adults: **Neocin Plus®** ointment should be applied thinly over the affected area after cleaning it. One to three daily applications should be continued until the

infection is controlled and healing complete.

Children and Infants: **Neocin Plus®** is suitable for use in children at the same dose as adults, but the dose should be reduced in infants. This ointment is not recommended for use in neonates.

Contraindications: "Neomycin, Bacitracin & Polymyxin" Ointment should not be used in individuals who have shown sensitivity to any of the components.

A possibility of increased absorption exists in very young children, thus "Neomycin, Bacitracin & Polymyxin" is not recommended for use in neonates.

Side effects: Blurred vision, mild burning, irritation, or stinging. Allergic reactions (rash, hives, itching, difficulty breathing, tightness in the chest, swelling of the mouth, face, lips, or tongue).

Use in pregnancy & lactation: There is little information to demonstrate the possible effect of topically applied neomycin in pregnancy and lactation. However, neomycin present in maternal blood can cross the placenta and may give rise to a theoretical risk of foetal toxicity, thus "Neomycin, Bacitracin & Polymyxin" ointment is not recommended in pregnancy and lactation.

Precautions: It is to be noted that "Neomycin, Bacitracin & Polymyxin" Ointment is not intended for sterile use in surgical procedures such as those involving abdominal or thoracic cavities as there is evidence that neomycin, when in contact with peritoneal or pleural tissues, can potentiate neuromuscular block in patients under the influence of muscle relaxants, producing respiratory paralysis. As with other antibiotic preparations prolonged use may result in overgrowth of nonsusceptible organisms.

Drug interactions: Aminoglycosides, other (concurrent topical and systemic use with neomycin or related drugs is not recommended since hypersensitivity reactions may occur more frequently during concurrent use.

Over dosage: This medicine is not usually absorbed through the skin in amounts large enough to cause an overdose.

Storage: Store in a cool (Below 25° C temperature) and dry place protected from light.

Packaging: **Neocin Plus® Ointment:** Each pack has a tube containing 10 gm of the ointment.


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Ideas for healthcare

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