

Betson-CG®

Betamethasone + Clotrimazole + Gentamicin

Description: Betson-CG® is the preparation of Betamethasone 0.05%, Clotrimazole 1% and Gentamicin 0.1%. Betamethasone is a corticosteroid with anti-inflammatory, antipruritic and vasoconstrictive properties. But the exact mechanism of action of corticosteroids is not clearly known. Clotrimazole is a broad-spectrum antifungal agent used for the treatment of superficial infections caused by species of pathogenic dermatophytes, yeasts and *Malassezia furfur*. Gentamicin is a bactericidal antibiotic of Aminoglycoside class and is used against a wide range of infections.

Mode of action: Betamethasone induces lipocortin which inhibits phospholipase A-2 enzyme which results in the inhibition of different inflammatory mediators synthesis like prostaglandins, cinins, histamines. Clotrimazole inhibits the synthesis of ergosterol, a major sterol in the fungal cell membrane. This leads to instability of the cell membrane and eventual death of the fungus.

Gentamicin acts by irreversible inhibition of protein synthesis by binding to the 30s subunit of bacterial ribosome. As a result the bacteria grows without any functional protein and ultimately are killed.

Composition

Betson-CG® Cream: Each gm contains Betamethasone Dipropionate BP 0.643 mg equivalent to 0.5 mg Betamethasone, Clotrimazole BP 10 mg and Gentamicin Sulfate BP 1.695 mg equivalent to 1 mg Gentamicin.

Indications: This Cream is indicated for the treatment of corticosteroid-responsive dermatoses when complicated by infections caused by bacteria and fungi. This is also effective in the treatment of tinea pedis, tinea cruris & tinea corporis, acute and chronic eczema.

Dosage & administration: Betson-CG® cream is to be applied gently into the affected skin areas twice daily. Duration of therapy varies depending upon the extent and location of disease and patient response. For effective treatment, This Cream should be applied regularly.

Contraindications: The preparation is contraindicated to those patients who are sensitive to any of its components or to other corticosteroids or to imidazoles. The preparation is contraindicated in facial rosacea, acne vulgaris, perioral dermatitis, perianal and genital pruritus, napkin eruptions and bacterial or viral infections.

Side effects: Adverse reactions reported for the preparation in clinical trials were paresthesia, rash, burning, edema and secondary infection etc.

Use in pregnancy & lactation: Since safety of topical corticosteroid in pregnant women has not been established, it should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

It is not known whether the components of the preparation are excreted in human milk and therefore caution should be exercised when treating nursing mothers.

Precautions: Systemic absorption of topical corticosteroids can produce reversible hypothalamic-pituitary-adrenal (HPA) axis suppression. If HPA axis suppression is noted, an attempt should be made to withdraw the drug or to reduce the frequency of application. It is not for application to the face or to eyes. It is also not for prolonged use or use in extensive areas, under an occlusive dressing, open wound, injured areas, exterior genital areas and skin folds.

Drug interactions: There are no adequate and well controlled data about drug interactions.

Over dosage: Acute overdose with the preparation is unlikely and would not be expected to lead to a life-threatening situation. The preparation should not be used for longer than the prescribed time period.

Storage: Keep out of reach of children. Store in a dry place, below 25°C temperature and protected from light.

Packaging

Betson-CG® Cream: Each pack has a lami tube containing 15 gm of the cream.



Opsonin Pharma

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