

# Fungidal-HC<sup>®</sup>

Miconazole Nitrate & Hydrocortisone

**Fungidal-HC<sup>®</sup>** is a combination of Miconazole Nitrate & Hydrocortisone.

Miconazole Nitrate is an imidazole antifungal agent and possesses antibacterial activity. At low concentrations, it interacts with fungal cytochrome P450 which results in inhibition of demethylation step in the biosynthesis of ergosterol. At high concentrations, miconazole interacts with membrane lipids causing direct membrane damage which results in leakage of fungal cell constituents. It appears that fungistatic effects results from the inhibition of the barrier function of the membrane. Hydrocortisone is a naturally occurring glucocorticoid that is now prepared by chemical synthesis and its main action is to reduce the response of the skin injury (i.e. anti-inflammatory). It also has immunosuppressant and antimetabolic actions.

The anti-inflammatory activity of hydrocortisone is its main therapeutic property. This is thought to be mediated by the reduction in formation, release and action of the various vasoactive chemicals released during inflammation—kinins, histamine, lysosomal enzymes, prostaglandins and the complemented system. Steroids decrease membrane permeability and bind to tissue receptors. They also induce vasoconstriction, by reducing vascular permeability and reversing vascular dilatation which in turn decreases serum extravasations, swelling and discomfort, including itching. Thus, they effectively reduce cellular access to inflamed sites. Corticosteroids also exhibit an antimetabolic effect against human epidermal cells which may account for their effectiveness in the treatment of scaly dermatoses such as psoriasis.

## COMPOSITION

Each gram of **Fungidal-HC<sup>®</sup>** cream contains Miconazole Nitrate BP 20 mg & Hydrocortisone BP 10 mg.

## INDICATION

For the topical treatment of topical inflamed dermatoses where infection by susceptible organisms and inflammation coexist e.g. intertrigo and infected eczema. For moist or dry eczema or dermatitis including atopic eczema, primary irritant or contact allergic eczema or seborrhoeic eczema including that associated with acne. Also for intertriginous eczema including inflammatory intertrigo, perianal and genital dermatitis. Organisms which are susceptible to miconazole are dermatophytes and pathogenic yeasts. (e.g.

*Candida* spp.) Also many Gram-positive bacteria including many strains of Streptococcus and Staphylococcus.

## DOSAGE & ADMINISTRATION

It should be applied topically to the affected area two or three times daily. The same dosage applies to both adults and children. In infants, long term continuous topical corticosteroid therapy should be avoided. Occlusive dressing is usually only necessary in the case of nail lesions.

## CONTRA-INDICATION

It should not be used in patients who are hypersensitive to any of the ingredients. It should not be used in tubercular or viral infections of the skin or those caused by Gram-negative bacteria.

## USE IN PREGNANCY AND LACTATION

Administration of corticosteroids to pregnant animal can cause abnormalities of fetal development. Topical steroids should not be extensively used in pregnancy.

## SIDE EFFECTS

Rarely local sensitivity may occur. Topically applied corticosteroids can be absorbed in sufficient amounts to produce systemic effects.

## PRECAUTION

It should be used with caution when applied to extensive surface areas or under occlusive dressings including baby napkins. Application to extensive surface areas of the face should be avoided.

## WARNING

In infants long term continuous therapy should be avoided. Adrenal suppression can occur even without occlusion.

## DRUG INTERACTION

Amphotericin antagonizes effect of Miconazole.

## HOW SUPPLIED

**Fungidal-HC<sup>®</sup>** Cream: Each pack has a laminated tube containing 15 gm of the cream.

Manufactured by



**SQUARE**  
PHARMACEUTICALS LTD.  
BANGLADESH