



INFECTIOUS DISEASES (BACTERIAL, FUNGAL, VIRAL, PARASITIC, INFESTATIONS)

EFFICACY AND SAFETY OF CICLOPIROX OLAMINE 1% CREAM IN TREATMENT OF DERMATOPHYTOSIS

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Background: Ciclopirox is a broad-spectrum antifungal agent with anti-inflammatory property and is effective against both Gram-positive and Gram-negative bacteria. These properties may give ciclopirox an advantage over other antifungal agents in the treatment of dermatophyte infection.

Objective: To evaluate the efficacy and safety of Ciclopirox olamine 1% cream in the treatment of Dermatophytosis.

Methods: A clinical trial was carried out in Department of Dermatology and Venereology, Dhaka Medical College Hospital, Dhaka from October 2015 to September 2016. 81 patients with tinea corporis/tinea cruris were selected. Patients were examined for clinical diagnosis of tinea corporis/cruris infections and confirmed by positive 10.0% KOH reading. All patients were advised to apply Ciclopirox olamine 1% cream once daily for 2 weeks with clinical assessment made at weekly interval and Clinical and mycological (10.0% KOH reading) assessment at baseline and at 4th week.

Result: The age of the patients ranged from 18 to 60 years with the mean age of 32.5 (SD \pm 10.5) years. There were 52 (64.2%) male and 29 (35.8%) female. Among the 81 patients, tinea corporis in 47 (58.0%) patients and tinea cruris in 34 (42.0%) patients. The improvement was statistically significant ($p < 0.001$). Global response was clear in 55 (67.9%) patients, good in 25 (30.9%) patients and fair in 1 (1.2%) patients. Mycological response was eradicated in 80 (98.8%) and persistent in 1 (1.2%) patients. Clinical efficacy was cure in 55 (67.9%) patients, improvement in 25 (30.9%) patients and failure in 1 (1.2%) patients.

Conclusion: It can be concluded that once daily topical administration of Ciclopirox olamine 1% cream is highly effective and well tolerated by patients in the treatment of dermatomycoses. The short treatment regimen and the high cure rate with Ciclopirox olamine 1% cream can be a valuable treatment option in treating dermatophytosis.

