

Efficacy of Ciclopirox Olamine cream in superficial dermatophytosis

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Abstract

Background: Ciclopirox is a broad-spectrum antifungal agent as well as anti-inflammatory agent 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: In Dhaka Medical College hospital Eighty-one patients with tinea corporis/tinea cruris were selected according to the inclusion and exclusion criteria and were examined for clinical diagnosis and confirmed by a positive 10.0% KOH reading. They were advised to apply Ciclopirox olamine 1% cream once daily for 2 weeks and Clinical and mycological 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 with a male to female ratio was 1.8:1. The mean age of the female patients was significantly lower ($Z=1.114$; $p>0.05$) and highest 29 (35.8%) patients were in the age group of 21-30 years. Tinea corporis found in 47 (58.0%) and tinea cruris in 34 (42.0%). The mean clinical assessment score declined from 6.6 ± 1.3 at baseline; to 3.9 ± 1.2 at week 1, 0.9 ± 1.3 at week 2; 0.7 ± 1.1 at week 4. Global response was clear in 55 (67.9%), good in 25 (30.9%) and fair in 55 (67.9%). Mycological response was eradicated in 80 (98.8%) patients and persistent in only 1 (1.2%) patients. Clinical efficacy was cure in 55 (67.9%), improvement in 25 (30.9%) and failure in 1 (1.2%). Excessive pruritus occurred in 2 (2.5%) and excessive burning in 1 (1.2) after initial application of cream which gradually disappeared after subsequent application.

Conclusion: Once daily topical administration of Ciclopirox olamine 1% cream is highly effective and well tolerated treatment of dermatomycoses causing *T corporis* and *T cruris*. The short treatment regimen and the high cure rate with Ciclopirox olamine 1% cream can be a valuable treatment option in treating tinea corporis and cruris.

Biography:

Dr Sharmin Jahan has completed her MBBS at the age of 23 years from Sir Salimullah Medical College and Mitford Hospital and postgraduation study MCPS And FCPS from BCPS. She is the Consultant of Dermatology and venereology of Bangladesh Ministry of Health and family welfare. She has published 1 papers in reputed journal.



Speaker Publications:

1. "Diagnostic efficiency of diabetes in pregnancy study group of India versus World Health Organization 2013 criteria";springer/ International Journal of Diabetes in Developing Countries /Published: 28 February 2020
2. "Iodine nutrition status in schoolchildren of Dhaka city in Bangladesh";thetp/ Year : 2019 | Volume : 16 | Issue : 2 | Page : 71-75
3. "Genome-wide identification, characterization and expression profiling of gibberellin metabolism genes in jute"; BMC Plant Biology volume 20, Article number: 306 (2020)
4. Antidiarrheal and Antimotility Activities of Stem Bark Extracts of Annona reticulata Linn. in Mice Model Journal of Applied Life Sciences International/ 2019 - Volume 20 [Issue 3]
5. Depression and suicidal behaviors among Bangladeshi mothers of children with Autism Spectrum Disorder: A comparative study ;Asian J Psychiatr . 2020 Jun;51:101994. doi: 10.1016/j.ajp.2020.101994. Epub 2020 Feb 27.

[15th World Conference on Infectious Diseases, Prevention and Control](#); Dubai, UAE- March 19-20, 2020.

Abstract Citation:

Sharmin Jahan, Efficacy of Ciclopirox Olamine cream in Superficial Dermatophytosis, Infectious Diseases Conf 2020, 15th International Conference on Infectious Diseases, Prevention and Control; Dubai, UAE, March 19-20, 2020 (<https://infectious-diseases.conferenceseries.com/2020>)