

## A Clinical Study of Efficacy and Safety of Topical Antifungal Agents for the Treatment of Tinea Corporis

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### Abstract

Skin fungal is a common presentation in tropical countries like India. Tinea corporis is the name given to all dermatophytosis of glabrous skin except palms, soles, and groin. The present study was done to determine the efficacy and safety profile of topical antifungal drugs clotrimazole and sertaconazole. **Methods:** The study was conducted in the OPD of the Department of Dermatology, on patients with the diagnosis of tinea corporis. A total of n=80 cases were taken up for the study divided randomly into two groups of n=40 each. Group I used sertaconazole cream and group II clotrimazole used cream. The patients were advised to apply the drugs twice daily topically for a period of three weeks. The follow-up parameters like erythema, scaling, itching, margins, size, and KOH mounts were taken for comparison of results. **Results:** The overall reduction in the size of the lesion to grade 0 in group I was 47.5% and group II was 65.5%. the p-values were 0.0334 which were considered significant. Pre-treatment KOH mount in group I was grade 2 in 40 cases and post-treatment KOH mount investigation 95% were converted to grade 0 (KOH Negative) at the end of treatment. In group II the values of grade 2 were converted to grade 0 (KOH Negative) in all 100% cases. No significant adverse reactions were reported to cases in both groups. **Conclusion:** At the end of 4 weeks sertaconazole 2% cream showed a significant reduction in erythema, scaling, itching, and margins except for size compared to clotrimazole 2% cream. Hence, sertaconazole 2% may be the choice of treatment in skin lesions of T. Corporis.