

Formulation and Evaluation of Antifungal Activity of A Herbal Ointment Containing Azadirachta Indica (Neem)

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Abstract: *In the last few decades there has been an exponential growth in the field of herbal drug. It is getting popularized in developing and developed countries owing to its natural origin and lesser side effects. Fungal infection is now the fourth most common infection in the world. For topical delivery poor permeability of the drug leads to high cost of therapy and decrease patient compliance. The scientific evidence has brought about the possibility of utilization of herbal plant in the treatment of fungal and the development of anti-fungal products. In the present study, herbal ointment contain Neem was formulated and evaluated to study of anti-fungal activity. It was found that ointment contain Neem showed anti-fungal activity. This ointment can be used in the treatments of fungal infections, rashes, wounds and other skin infections. Neem extracts were obtain through methanol-hexane partitioning of mature green leaves and seed oil. Neem leaves and seed oil methanol extracts exhibited different chromatographic profile by HPLC, which could explain the differences observed in their antifungal activity. This analysis revealed the possible presence of terpenoids in both extracts, which are known to have biological activity. The results of this research are a new report on the therapeutic potential of neem to the control of dermatophytosis and other type of antifungal diseases.*

Keywords: Anti fungal, permeability, patient compliance, hplc, Terpenoids, dermatophytosis

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