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**ANTI - FUNGAL ACTIVITY OF SIDDHA FORMULATION KADALAZHINJIL
KUDINEER BY DISC DIFFUSION METHOD**

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ABSTRACT

Siddha medicine is one of the ancient medicines. Lore *Shiva* is the first saint to describe about the *Siddha* Medicine to *Nandhi Devar* and *Nandhidevar* passed on to other saints. The Tinea Infections are prevalent in tropical countries. Tinea infection is common between 5-16yrs of age. In India, the prevalence of Tinea infection is around 1 - 20yrs of age. Herbs are the safest forms of medicines for children. So the author has taken an herbal trial drug for the treatment of *Padarthamarai* (Tinea Infections) in Children for her present study to evaluate the therapeutic efficacy of the trial drug *Kadalazhinjil Kudineer*. Anti - fungal activity of the trial drug has been carried out by Disc Diffusion method against *Trichophyton rubrum*.

KEYWORDS

Kadalazhinjil Kudineer, Tinea infection, Anti - Fungal Activity and Siddha Formulation.

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INTRODUCTION

Siddha medicine is one of the ancient medicines. Lore *Shiva* is the first saint to describe about the *Siddha* Medicine to *Nandhi Devar* and *Nandhidevar* passed on to other saints. It is all about balancing the three humours (*Vaatham, Pitham, Kabam*) in our body by taking *Arusuvai Unavu (Inippu, Pulippu, Uppu, Kaippu, Karppu, Thuvarppu)* in our meals. These tastes balance the three humours in our body and help us to attain healthy life. *Siddha* system has enormous number of medicines which are very effective and most of them are not yet scientifically validated. The author has chosen a single herb formulation in order to evaluate its efficacy against the disease *Padarthamarai*. Single herb formulations help in identifying its efficacy

against the particular disease and the mechanism by which it is acting in our body. Herbs are the safest forms of medicines for children. So the author has taken an herbal trial drug for the treatment of *Padarthamarai* (Tinea Infections) in Children for her present study to evaluate the therapeutic efficacy of the trial drug. The Tinea Infections are prevalent in tropical countries. Tinea infection is common between 5-16yrs of age. In India, the prevalence of Tinea infection is around 1 - 20yrs of age¹⁻². The symptoms of *Padarthamari* are similar to Tinea Infections, is taken for dissertation, which is a Skin Infection. This is encountered by a large population of Children in India. The symptoms of *Padarthamarai* (Tinea infection) includes Black or White colour patches in the Skin. Lotus Petal shape like lesion. Hyperpigmentation. Central scaling. Marked itching in the lesions. Pain and burning sensation. Erythema. Vesicles. Sometimes oozing present (which may be very annoying)³⁻⁵.

MATERIAL AND METHODS

Kadalazhinjli (*Salacia reticulata*) root bark is made into a coarse powder. Water is added and boiled to get 1/8 measure of the decoction. Filtered and consumed. *Salacia reticulata* – 8.75gm, water – 70 ml (8 parts)⁶.

ANTI - FUNGAL ACTIVITY

The extract was screened for antifungal activities by Disc Diffusion Method against *Trichophyton rubrum* (MTCC 7859) and compared with standard drug Ketoconazole. The zone of inhibition formed for the compound against organisms was calculated.

ANTIFUNGAL ASSAY

Potato dextrose agar (PDA) was used for fungal cultures. The culture medium was inoculated with the fungal strains separately suspended in Potato dextrose broth. The synthesized compounds were applied on sterile disc. Standard antibiotic (Ketoconazole 30µg) was used as positive control and fungal plates were incubated at 37°C for 72 h. The diameters of zone of inhibition observed were measured.

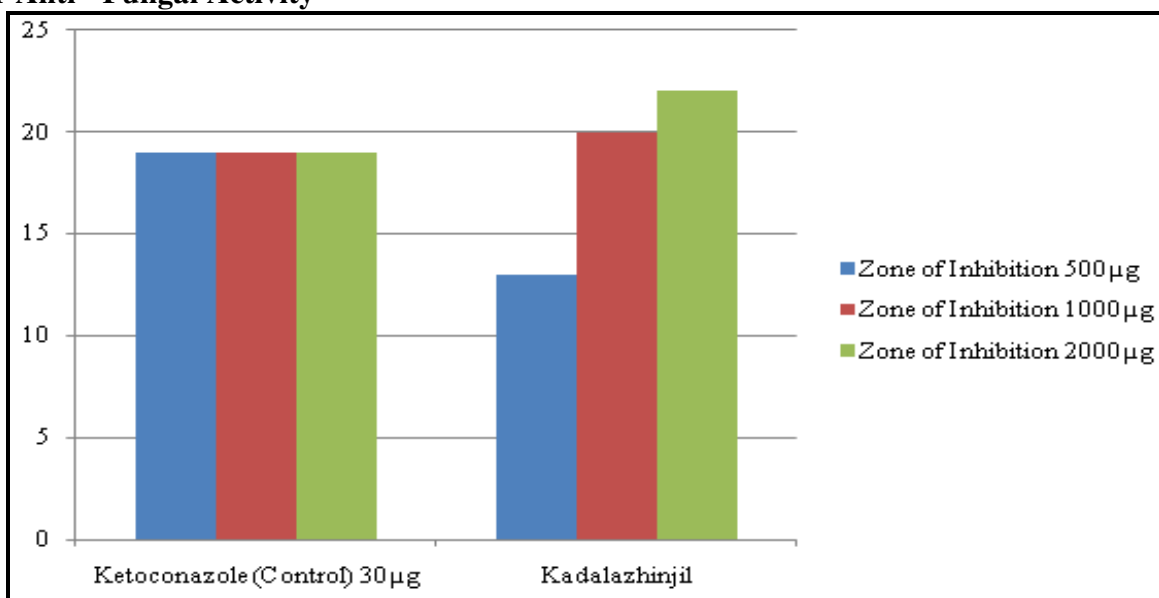
Table No.1: Zone of inhibition

S.No	Compounds	Zone of inhibition (mm)		
		<i>T.rubrum</i>		
		500 µg	1000µg	2000µg
1	<i>Kadalzhinjil</i>	13	20	22
2	Ketoconazole (30 µg)	19		

Photo



Graph for Anti - Fungal Activity



CONCLUSION

The results of this study shows that the Siddha formulation *Kadalazhinjil Kudineer* has significant Anti - Fungal activity at different dose levels. The zone of inhibition is observed clearly against the control drug Ketoconazole. This shows that Siddha formulation *Kadalazhinjil Kudineer* can be used for Tinea infections.

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CONFLICT OF INTEREST

I declare that I have no Conflict of Interest.

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