In-vitro Analysis of Anti-Microbial, Anti-Fungal & Anti- Oxidant Activity of Polyherbal Formulation - OMICS "Dooshivishari Agada"

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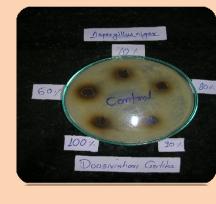
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INTRODUCTION:

'Dooshivishari Agada' is one of the frequently prescribed herbo-mineral compound medications in variety of ailments including venomous bites and stings in south India especially in Kerala. compound preparation is a The contribution of Vagbhata's Ashtanga Hridaya, Uttaratantra, chapter 35/39-40 which indicates is benefits and versatile applicability in various poisonous infectious insect bites.

and Shigella, and fungal strains Asperigillus *niger* and *Candida albicans*. Cefpodoxime and Fluconazole were used as anti-bacterial and antifungal control with concentration of 10mg/ml respectively to compare the effects.



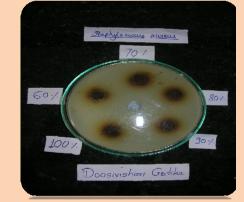


AIM & OBJECTIVES:

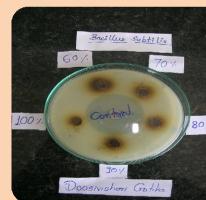
The present study was planned to explore the in vitro antimicrobial, anti-fungal and anti-oxidant activity of this formulation.

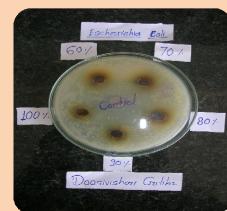
MATERIALS & METHODS:

Agar-well method was used for screening in vitro antibacterial and antifungal activity. Zones of inhibition were observed in disc diffusion for antimicrobial investigation against selected standard bacterial strains of E. Coli, Bacillus Subtilis, Staphylococcus aureus, Salmonella typhi











OBSERVATIONS:

Sr. No	Parameter	Control		Con	centra	ation	
Anti-Bacterial Activity		Cefpodoxime	60%	70%	80%	90%	100%
1	E. coli.	18 mm		-			
2	S. aureus	24 mm	25	26	26	31	33
3	B. Subtilis	32 mm	17	17	18	19	20
4	S. typhe	28 mm					
5	Shigella	34 mm					
Anti –fungal Activity		Fluconazole	60%	70 %	80 %	90 %	100%
1	A. niger	22 mm					
2	C. albicans	31 mm					

Sr. No	Parameter	Unit	Value
1	Total Ash	%	13.47
2	Total Phenols	mg / 100gm	258.32
3	Anti-Oxidant Activity	Ascorbic acid	10.91
4	Total Plate Count	cfu/g	$12 \ge 10^4$
5	Total Fungal Count	cfu/g	04 x 10 ²

RESULTS & CONCLUSION:

'Dooshivishari Agada' showed average zone of inhibition ranging from 17-33 mm suggesting its against activeness the tested microorganisms and confirmed its antimicrobial perspective. Anti oxidant activity was calculated in terms of Ascorbic acid which was observed as 10.91 again suggesting its free radical scavenging potentials.

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