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Research Article

IN VITRO MICROBIOLOGICAL STUDY ON; AN INDIGENOUS MOUTHWASH (GANDUSHA) FOR PERIODONTAL DISEASE

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ABSTRACT

Gandusha is clinically effective in the management of periodontal disease. This study is an in-vitro analysis on determining the antimicrobial efficacy of the drug using standard Antimicrobial Sensitivity Test against a fungal culture isolated from a patient. The test was performed according to the Well diffusion method having 6 mm diameter wells on Sabouraud Dextrose Agar (SDA). Each well was loaded with the test drug mixed in 20 µl of sterile distilled water and fluconazole 2.5 mg / ml was used as the positive control. According to the results the test drug showed Inhibitory Zone Diameter (IZD) of 15 mm. Therefore it can be stated that the test drug is more effective than the positive control and the isolated culture is sensitive to the test drug as it had shown a IZD of 19 mm while it is intermediate sensitive for the positive control as 15 mm comes under Intermediate Sensitive range (15 – 18 mm). These results support the fact that the indigenous mouth wash (Gandusha) is effective in the management of periodontal disease.

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INTRODUCTION

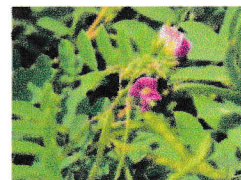
This research presents a microbiological study exploring anti-microbial sensitivity of the indigenous mouth wash on clinical specimen, focusing specially on total zone of growth inhibition. Ayurveda medical system is a one of the great medical system which can cure and prevent many diseases of human in world wide. Ayurveda medicines are becoming popular day-by-day and demand for its usage is increasing not only in the country but also worldwide. The inherent quality of Ayurveda treatment of having negligible side/after effects, has made great potential for its production. Ayurveda medicines are based on plants, animals extract and minerals both in single ingredient drugs and compound formulations.

Ayurveda is an ancient system of medicine and is a rich reservoir of resources even for the dental science. Ayurveda has mentioned various procedures for maintain the oral hygiene. *Gandusha* is the one of the local procedure. *Gandusha* is a method of holding any liquid in the mouth to its full capacity without any movement inside.

This indigenous mouth wash is a decoction preparation which is commonly used in Dental Clinic. This mouth wash was clinically very effective in management of periodontal disease.

This indigenous mouth wash is a decoction preparation by using,

- *Tephrosia purpurea* (pila mul)
- *Pongamia glabra* (Magul karanda)
- *Mimusopus elengi* (Munamal)
- *Embelica ribes* (walangasal)
- *Terminaliya chebula* (Aralu)



Tephrosia purpurea



Pongamia glabra

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