

عنوان مقاله:

Antifungal and antibacterial activities of polyherbal toothpaste against oral pathogens, in vitro

محل انتشار:

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تعداد صفحات اصل مقاله: 6

نویسندگان:

Batool Sadeghi-Nejad - *IAbadan School of Medical Sciences, Abadan, Iran*

Eskandar Moghimipour - *Medicinal Plant Research Center, Faculty of Pharmacy, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran*

Sedigheh Yusef Naanaie - *The Agricultural and Natural of Resources center, Ahvaz, Iran*

Shahrzad Nezarat - *Student Research Committee, Abadan School of Medical Sciences, Abadan, Iran*

خلاصه مقاله:

Background and Purpose: Herbal toothpastes are more secure and efficacious and less poisonous due to containing natural chemicals as compared with the synthetic toothpastes. The present study aimed to formulate a polyherbal toothpaste using accessible medicinal plants in Iran and evaluate its efficiency in the protection of oral hygiene and prevention of dental caries. **Materials and Methods:** The developed toothpaste was made of the leaf extracts of *Artemisia dracunculoides*, *Satureja khuzestanica* (Jamzad), and *Myrtus communis* (Linn), combined at four different dilutions, namely ۱:۴ (۲۵%), ۱:۱ (۵۰%), ۳:۴ (۷۵%), and (۱۰۰%), with sterile distilled water. The product was tested against five microorganisms, including *Streptococcus mutans*, *Lactobacillus casei*, *S. sanguis*, *S. salivarius*, and *Candida albicans*, using agar well diffusion method. **Results:** After ۲۴ h of incubation, the maximum mean diameters of inhibition zone against *L. casei* and *C. albicans* were obtained as ۱۷-۳۰ and ۱۰-۲۵ mm, respectively. Furthermore, the minimum mean diameter of inhibition zone against *S. salivarius* was estimated as ۱۵-۲۰ mm. **Conclusion:** The formulated toothpaste showed potent inhibitory activities against Gram-positive bacteria and *C. albicans*. Therefore, more studies are required to accurately investigate the efficacy of the formulated toothpaste.

کلمات کلیدی:

antibacterial, Antifungal, Oral pathogens, Polyherbal toothpaste, Yeast

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