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The efficacy of personal productive herbal-made mouthwash on oral pathogens for healthcare

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Dental problems are of three types, formation of dental plaques, dental caries and periodontal diseases. *Streptococcus mutans* is one of the main opportunistic pathogens of dental caries (1). In addition, other microflora like *Escherichia coli* and *Candida* are also associated with active caries lesions. *C. albicans* is the most common yeast isolated from the oral cavity (2). Poor oral hygiene is one of the reasons for growth of these microbes and their harmful activities. The aim of this study was to determine in vitro antimicrobial effects of herbal-made mouthwash containing the extracts of *Artemisia dracuncululus*, *Satureja khuzestanica* and *Myrtus communis* against oral pathogens related to caries and periodontal diseases. Antimicrobial effectiveness an herbal-made mouthwash was evaluated against five microorganisms: *Streptococcus mutans*, *Lactobacillus caseie*, *Streptococcus sanguis*, *Streptococcus salivarius* and *Cadida albicans* by agar well diffusion method. Agar well diffusion method. The herbal- maked mouthwash was tested at four different concentrations: 1:4(25%), 1:1(50%), 3:4(75%) and full strength (100%) with sterile distilled water as the diluent [2]. After 24 hours of incubation, the maximum mean diameter of inhibition zone against tested oral pathogens by *C. albicans* (20-35mm), *Lactobacillus caseie* (18-30mm), *Streptococcus mutans* (15-25mm), *Streptococcus salivarius*, and *Streptococcus sanguis* (15-25mm). The results indicate tested herbal mouthwash was a significant product to inhibit the growth of plaque bacteria and yeast.

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