

عنوان مقاله:

In vitro antifungal effect of herbal mixture (Nigella sativa, Foeniculum vulgare and Camellia sinensis) against Candida species isolated from denture wearers

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خلاصه مقاله:

Introduction: Due to antimicrobial and dental plaque control activities, herbal mouthwashes lead to an improvement in oral health. Although chemical mouthwashes have demonstrated the greatest antimicrobial and anti-inflammatory effects, their usage has been limited because of their numerous side effects. The aim of this study was to assess the antifungal activity of herbal mixtures containing Nigella sativa, Foeniculum vulgare and Camellia sinensis against oral isolates of Candida from denture wearers. **Methods:** We selected 93 individuals wearing complete denture prosthesis. Samples were collected from oral mucosa and dentures and cultured onto Sabouraud dextrose agar (SDA). The antifungal activities of N. sativa, F. vulgare and C. sinensis and their mixtures (no. 1, 2 and 3) against oral isolates of Candida were determined using punch-hole test. **Results:** The oral cavities of all denture wearers were colonized by yeasts. Among the Candida species, Candida albicans was the most frequently recovered species (45; 48.4%), followed by C. tropicalis (14; 15%), C. krusei (9; 9.7%), C. glabrata (6; 6.5%), C. dubliniensis (4; 4.3%) and Candida spp. (15; 16.1%). Among the tested plants, N. sativa (mean value: 12.3 mm) and F. vulgare (mean value: 7.9 mm) showed positive results against all Candida isolates. The results exhibited that all herbal mixtures were active against various tested Candida isolates, ranging from 7.8 to 15 mm, 7.6 to 15.5 mm and 7 to 15 mm inhibition zones for herbal mixtures no. 1, 2 and 3, respectively. **Conclusion:** The results indicated that C. albicans was the most prevalent Candida species. N. sativa and F. vulgare were good antifungal agents against oral species of Candida isolated from individuals wearing complete dentures, hence, there is a possible usefulness as therapeutic agents

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