

عنوان مقاله:

The Efficacy of Denture Cleansing Solutions in Stain Removal of Artificial Teeth

محل انتشار:

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خلاصه مقاله:

Introduction: Denture cleansers effectively reduce plaque formation; nonetheless, there is a dearth of studies on their efficiency in stain removal and the reduction of multispecies biofilms. The present study aimed to determine the ability of different denture cleansers to remove different stains. Methods: A total of 90 central incisors with A1 color were randomly assigned to three groups. Specimens were immersed into three staining solutions (black tea, coffee, and wine). After staining, colorimetry measurements were made, and specimens were immersed in denture cleansers (Protefix Active Cleanser and Aktident Cleansing Tablet) or tap water (control). Color difference (ΔE^*ab) was determined after two, four, and six months ($n=10$). Data were statistically analyzed using the Kruskal-Wallis analysis and Dunn's multiple comparison test at the %95 confidence level. Results: There was no significant difference between the stain removal efficacy of denture cleansers and the control group for all staining solutions. When the ΔE^*ab values were compared according to different time periods, specimens exposed to three different staining solutions and cleaned by denture cleaners and tap water showed no significant difference ($P>0.05$). In all time periods, teeth exposed to tea and immersed in the Protefix demonstrated higher color difference values ($\Delta E^*ab>5.5$). Color differences of all groups were perceptible to the eye ($\Delta E^*ab>1.8$). There were no significant differences among denture cleansers in different time periods ($P>0.05$). Conclusion: There was no significant difference among the denture cleansers regarding stain removal capacity. The soaking time of stained artificial teeth in denture cleansers did not change their color.

کلمات کلیدی:

Coloring Agents, color, dentures, Denture cleansers

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