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Formulation and Evaluation of Shikakai Paste as Denture Cleanser

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Formulation and Evaluation of Shikakai Paste as Denture Cleanser

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Abstract

The objective of the current study was to prepare Shikakai paste and evaluate their effect on *Staphylococcus aureus* and *Escherichia coli* biofilm formed on dentures. Shikakai (*Acacia concinna*) has a marked antibacterial activity against bacterial strains of gram positive and gram negative. Denture cleansers remove not only the biofilm, but also stains and other forms of food debris from dentures. The Shikakai paste was formulated by trituration method using varying concentrations of Shikakai powder. The formulated paste was then evaluated for different parameters such as pH, physical examination, foamability, moisture content, spreadability, abrasiveness, extrudability, cleaning ability, anti-microbial activity, and stability studies. From the results of the cleaning ability, it was found that the colour was removed completely without excessive brushing. The developed Shikakai Denture cleanser exhibited fairly well in the anti *S. Aureus* and *E.Coli* activity as compared to the standard Cefixime medication. The results of the present research highlighted that Shikakai has the potential to act as a Denture cleanser.

Key words: Denture Cleanser, Escherichia Coli, Shikakai, Staphylococcus aureus

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